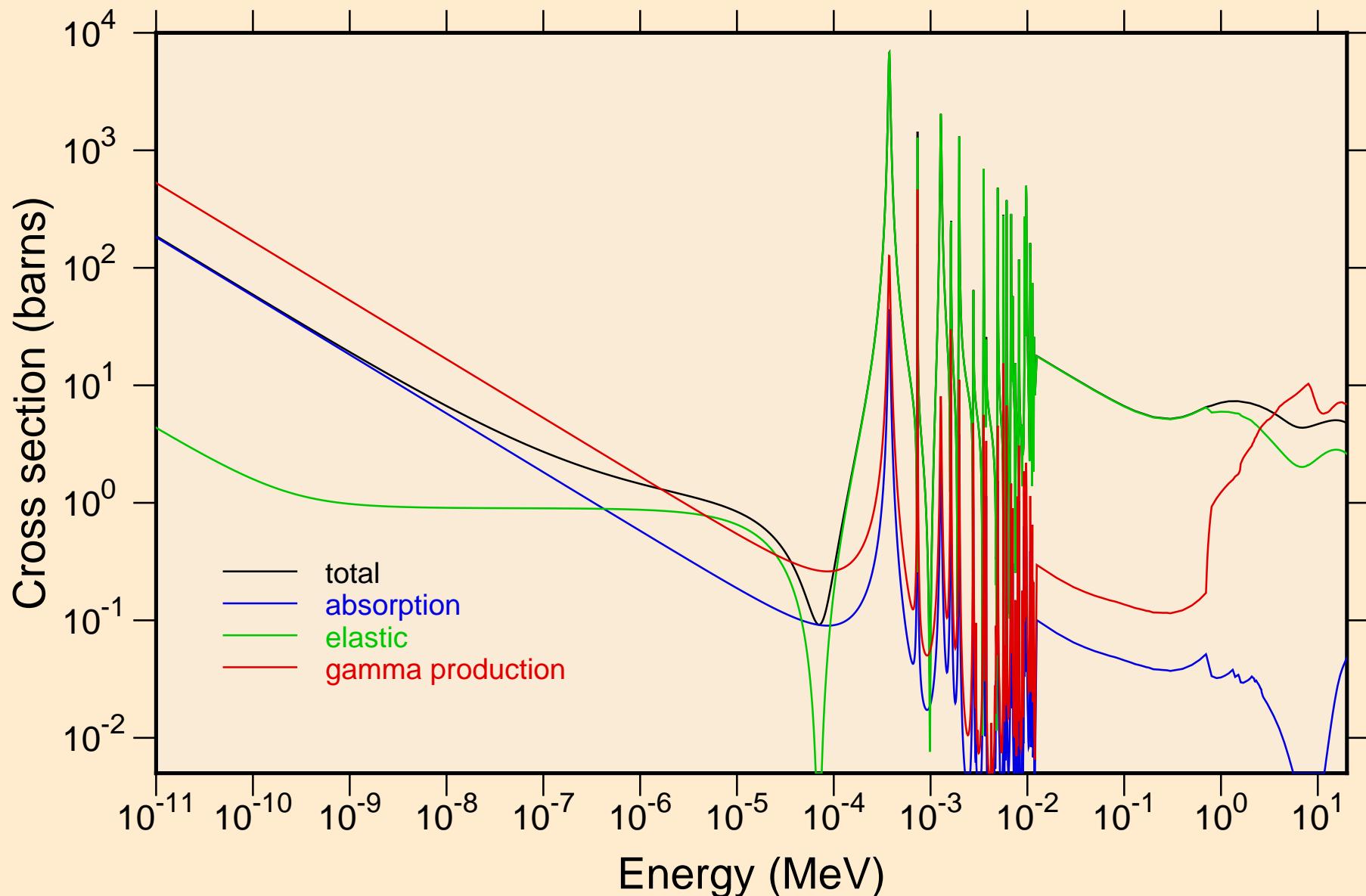
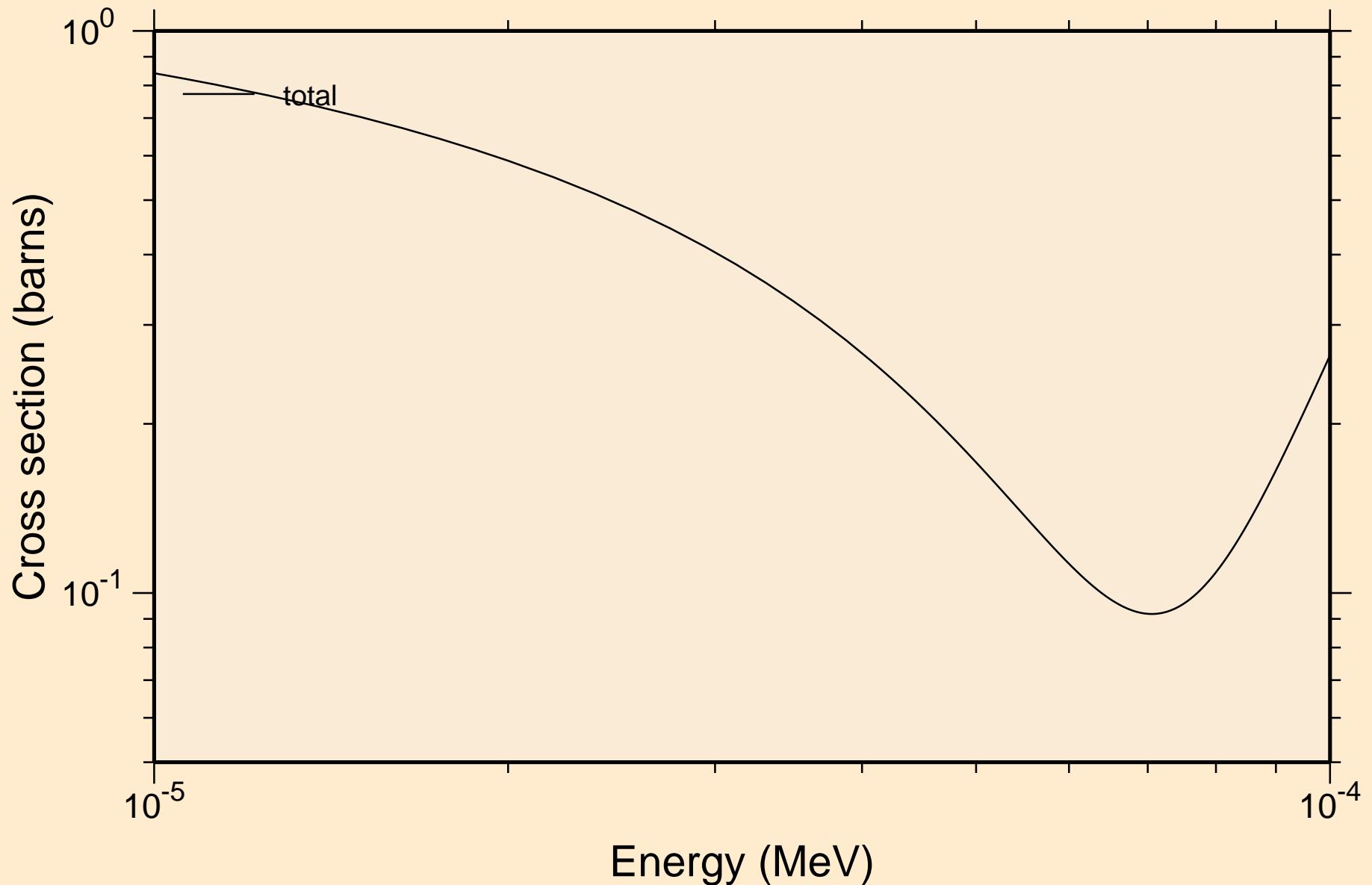


# JENDL-4 ND-144

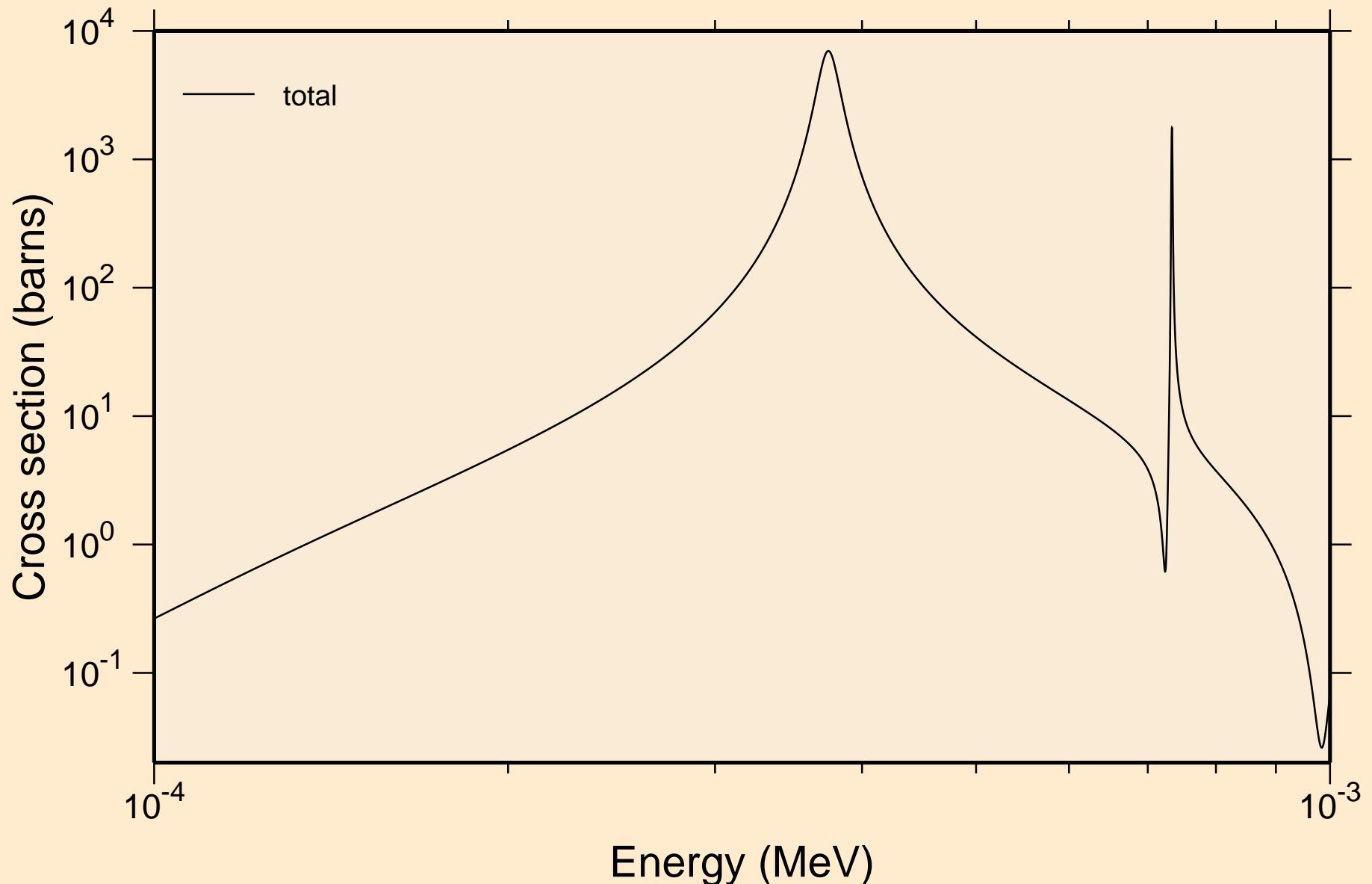
## Principal cross sections



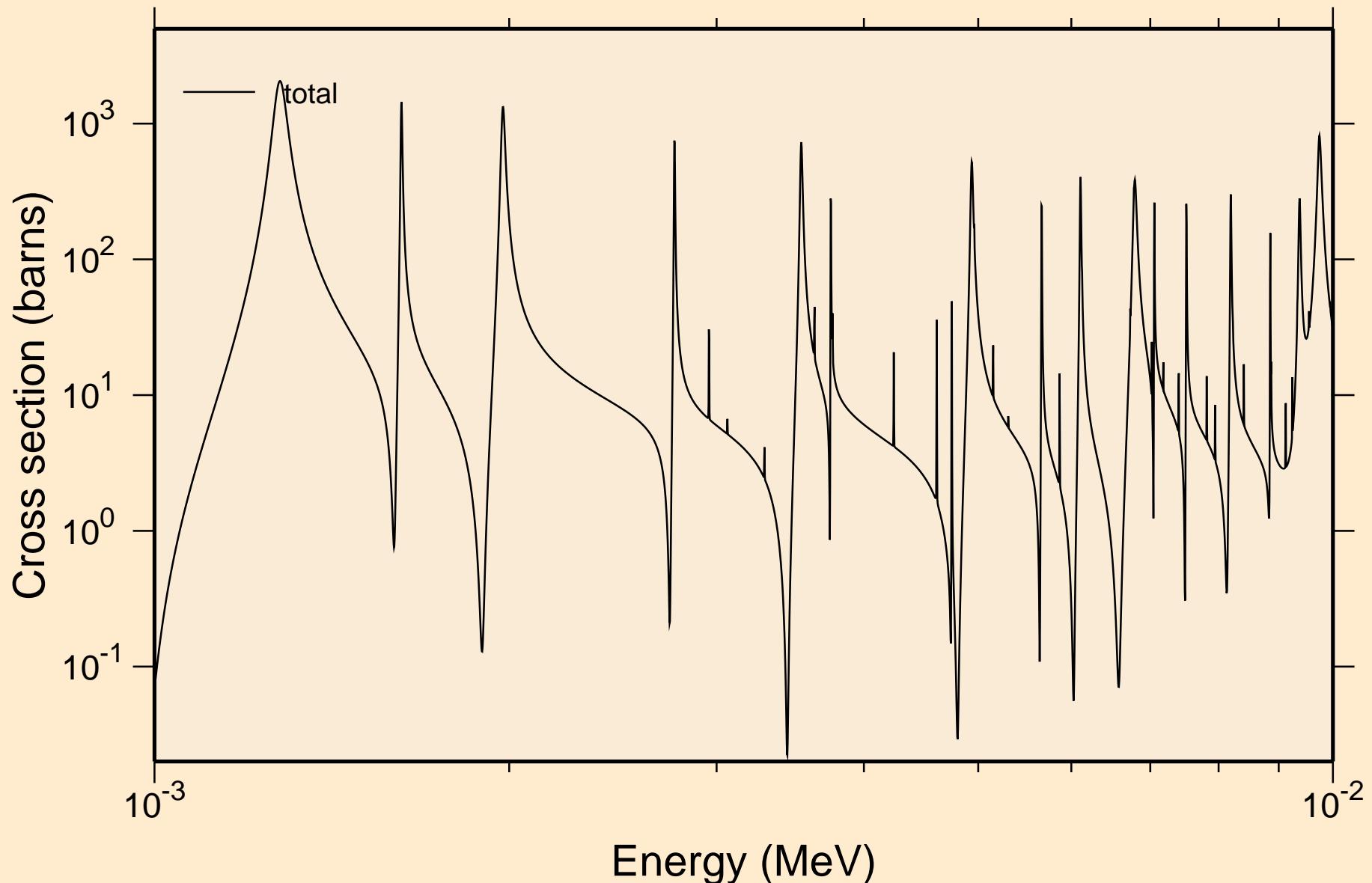
JENDL-4 ND-144  
resonance total cross section



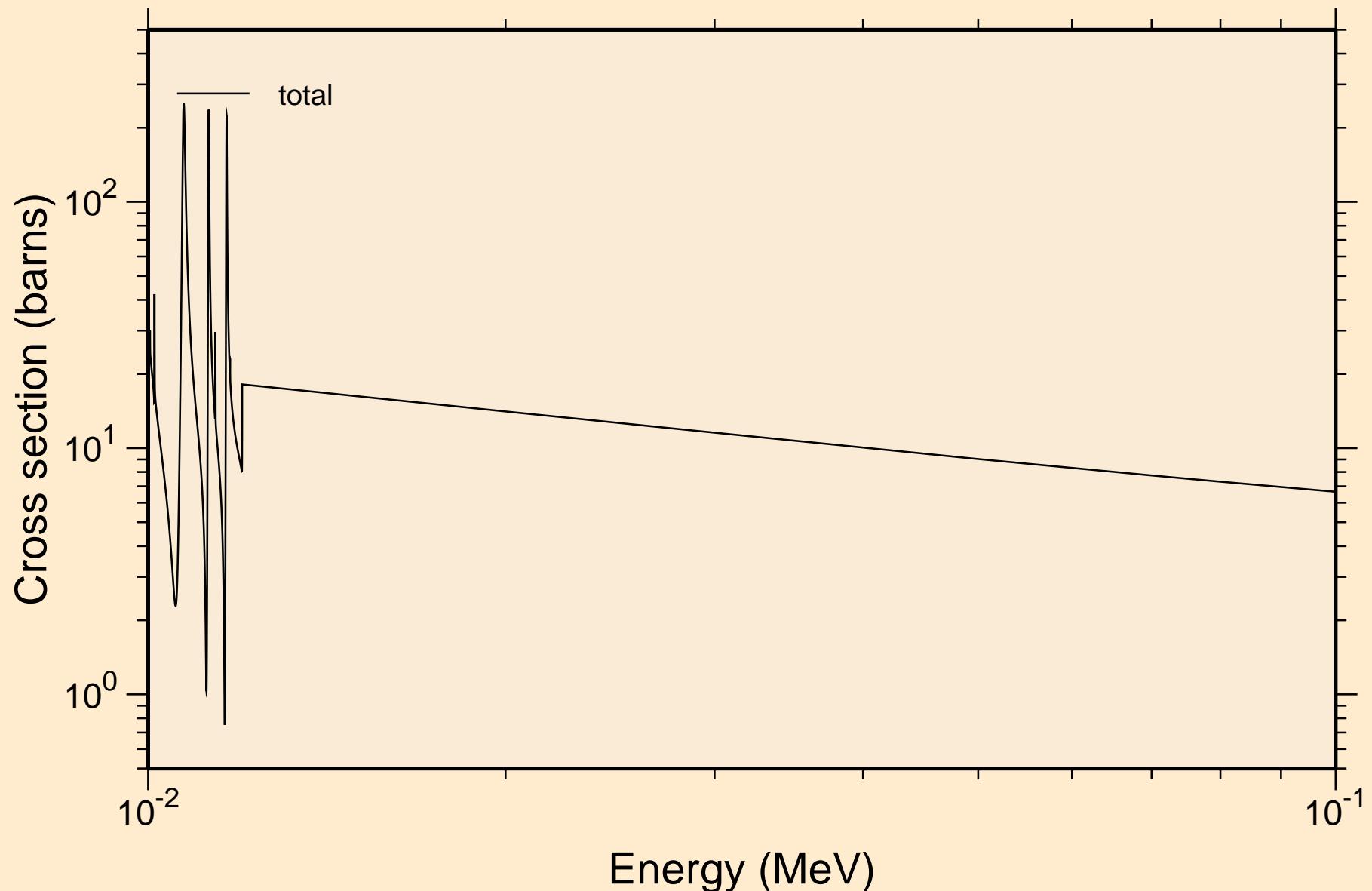
JENDL-4 ND-144  
resonance total cross section



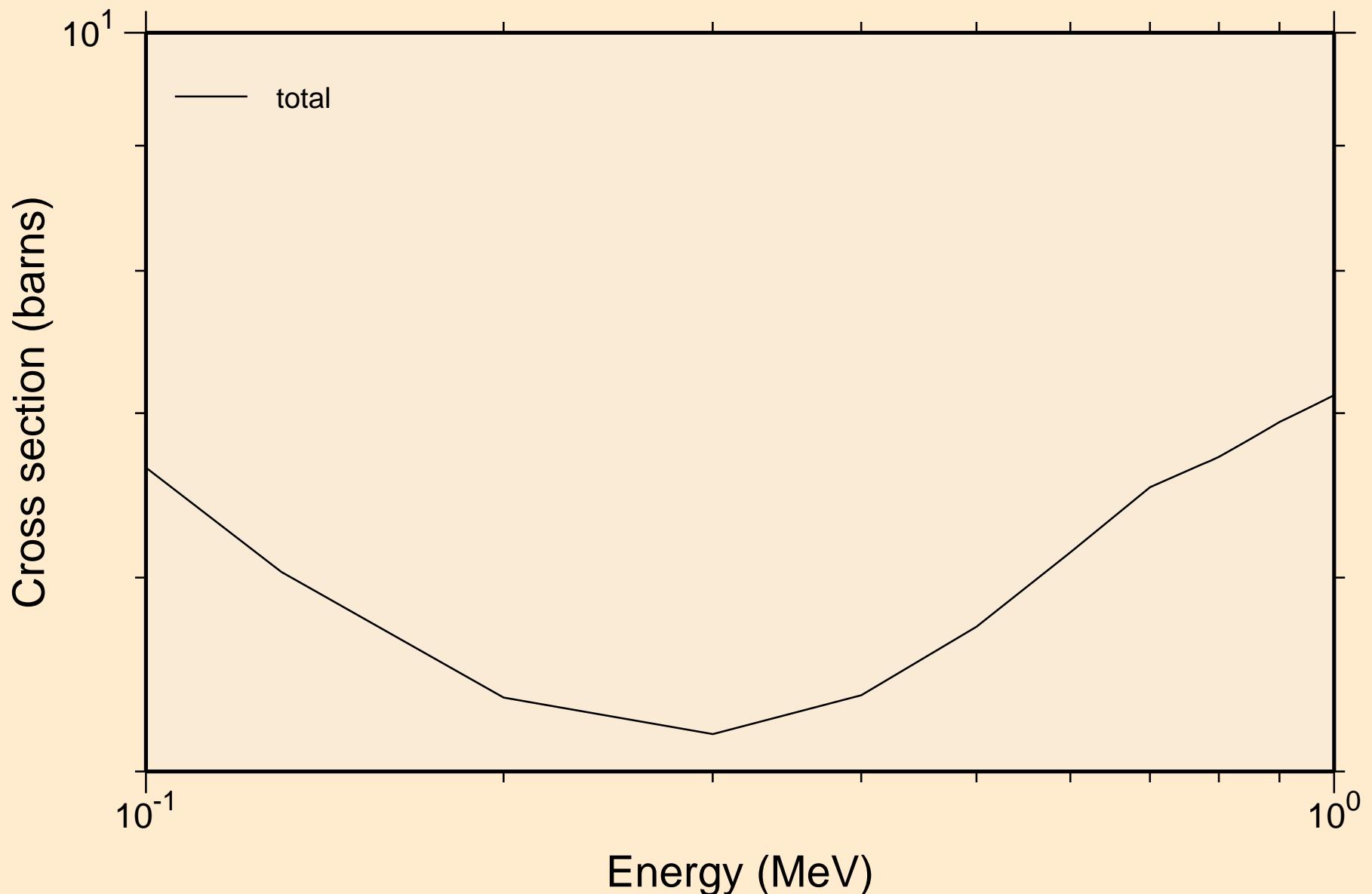
JENDL-4 ND-144  
resonance total cross section



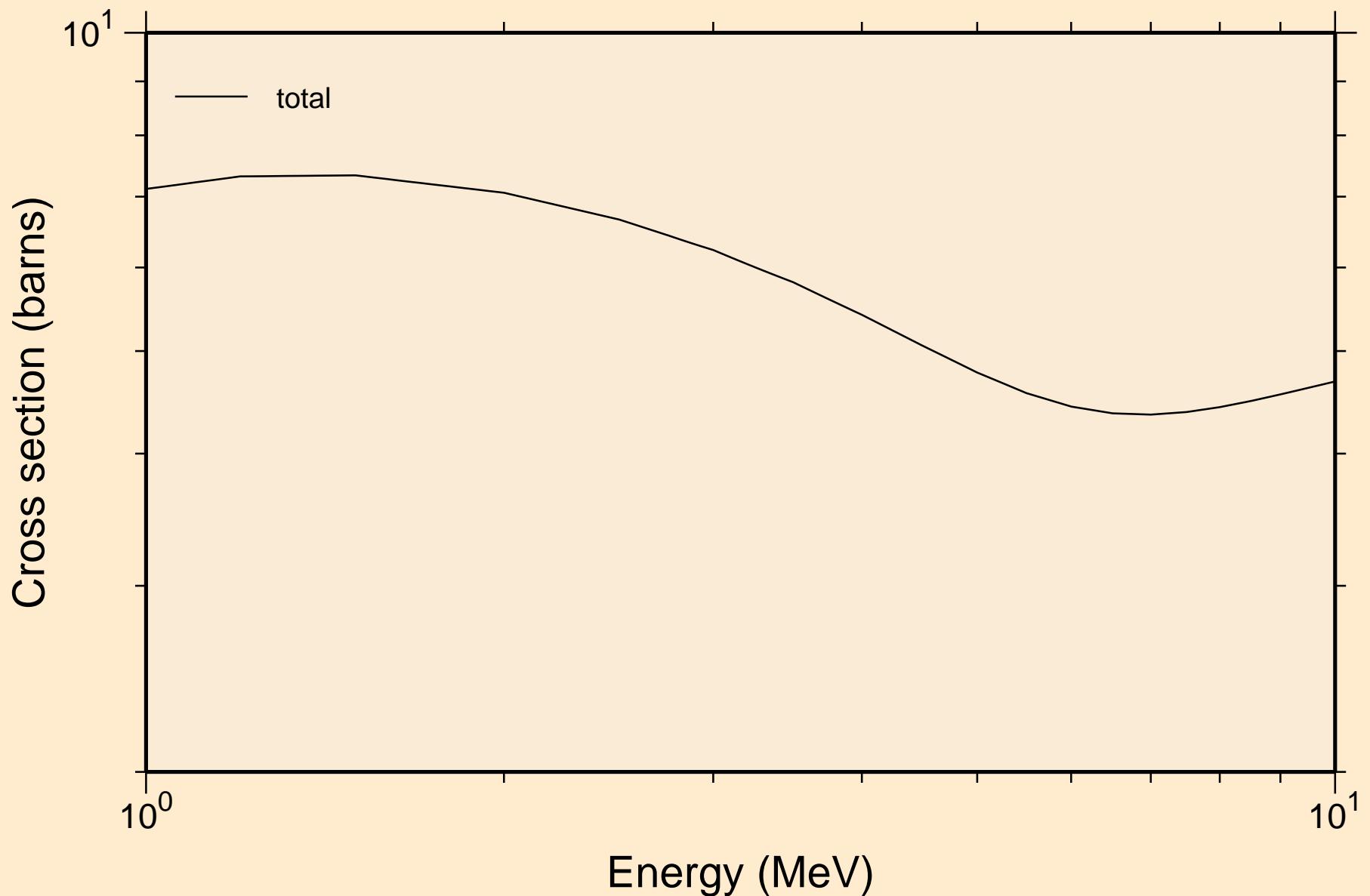
JENDL-4 ND-144  
resonance total cross section



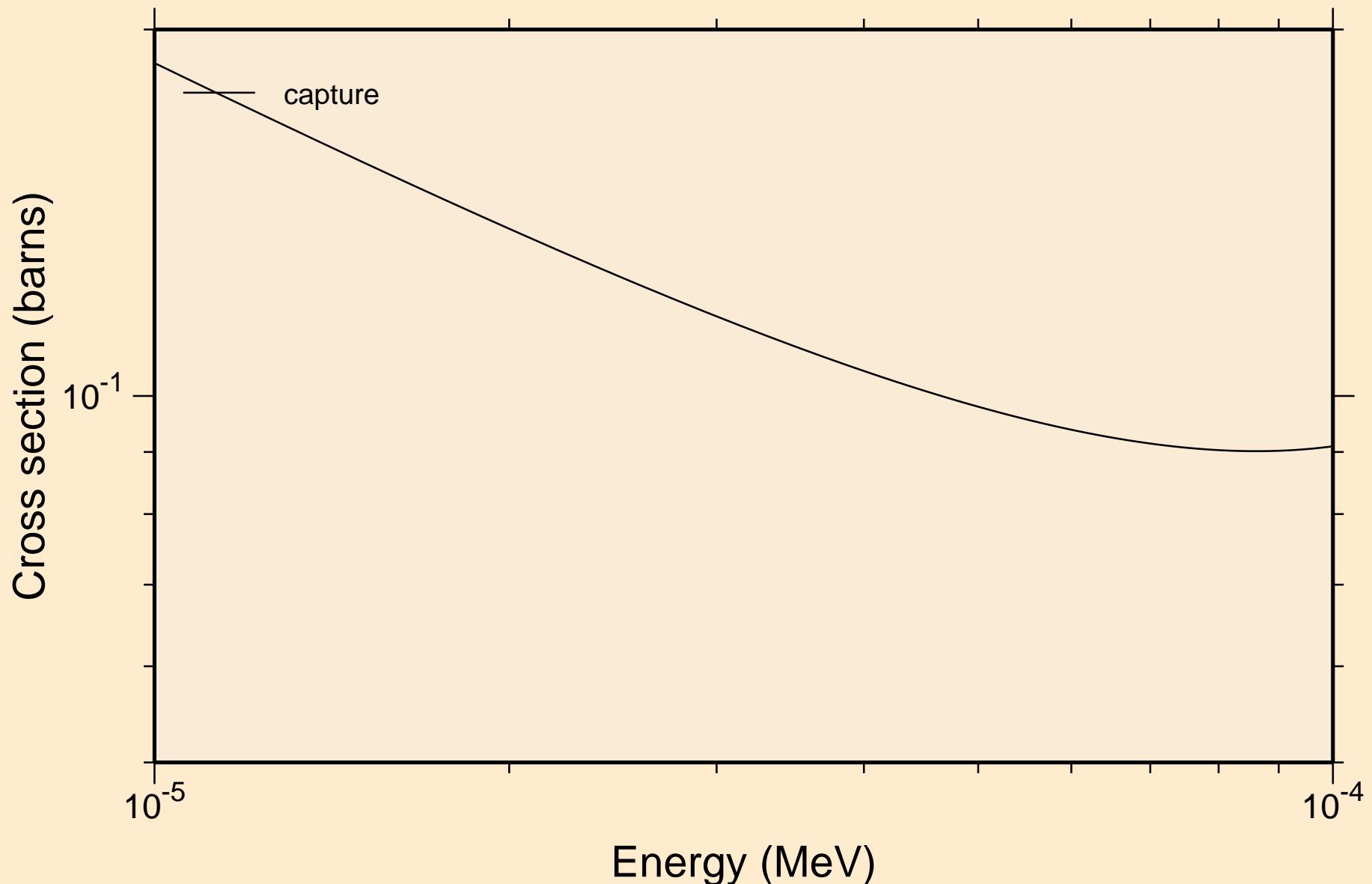
JENDL-4 ND-144  
resonance total cross section



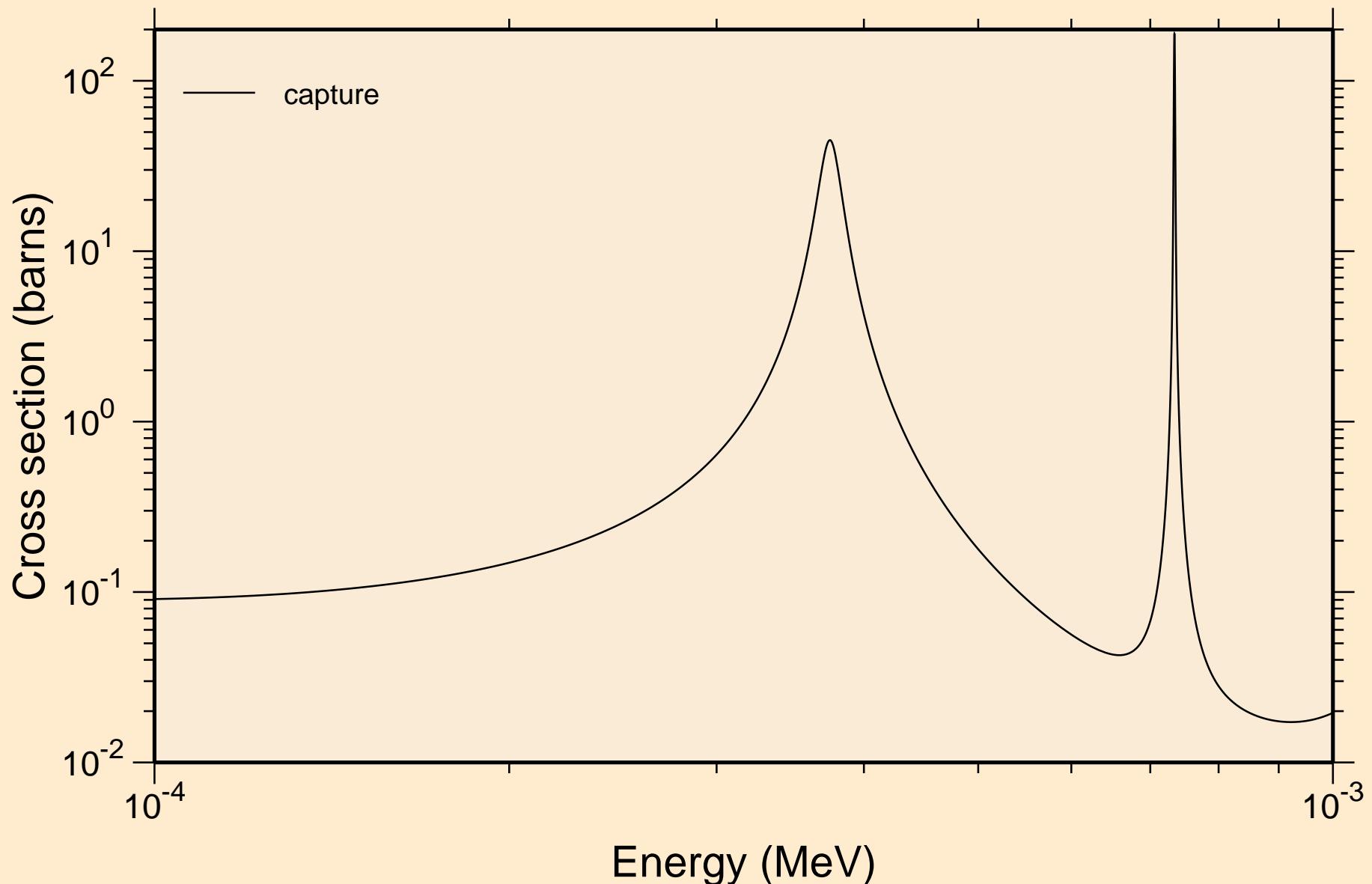
JENDL-4 ND-144  
resonance total cross section



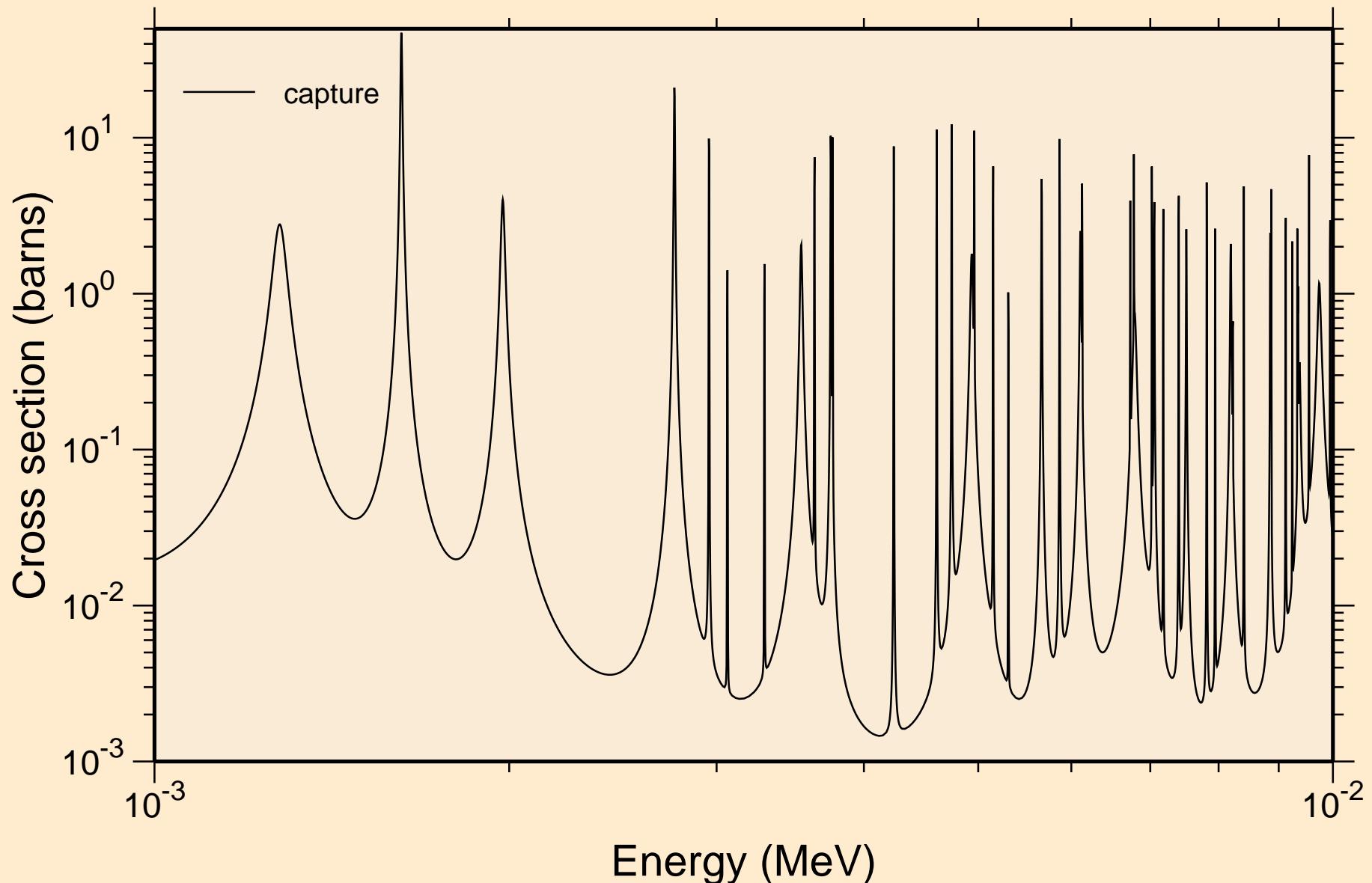
JENDL-4 ND-144  
resonance absorption cross sections



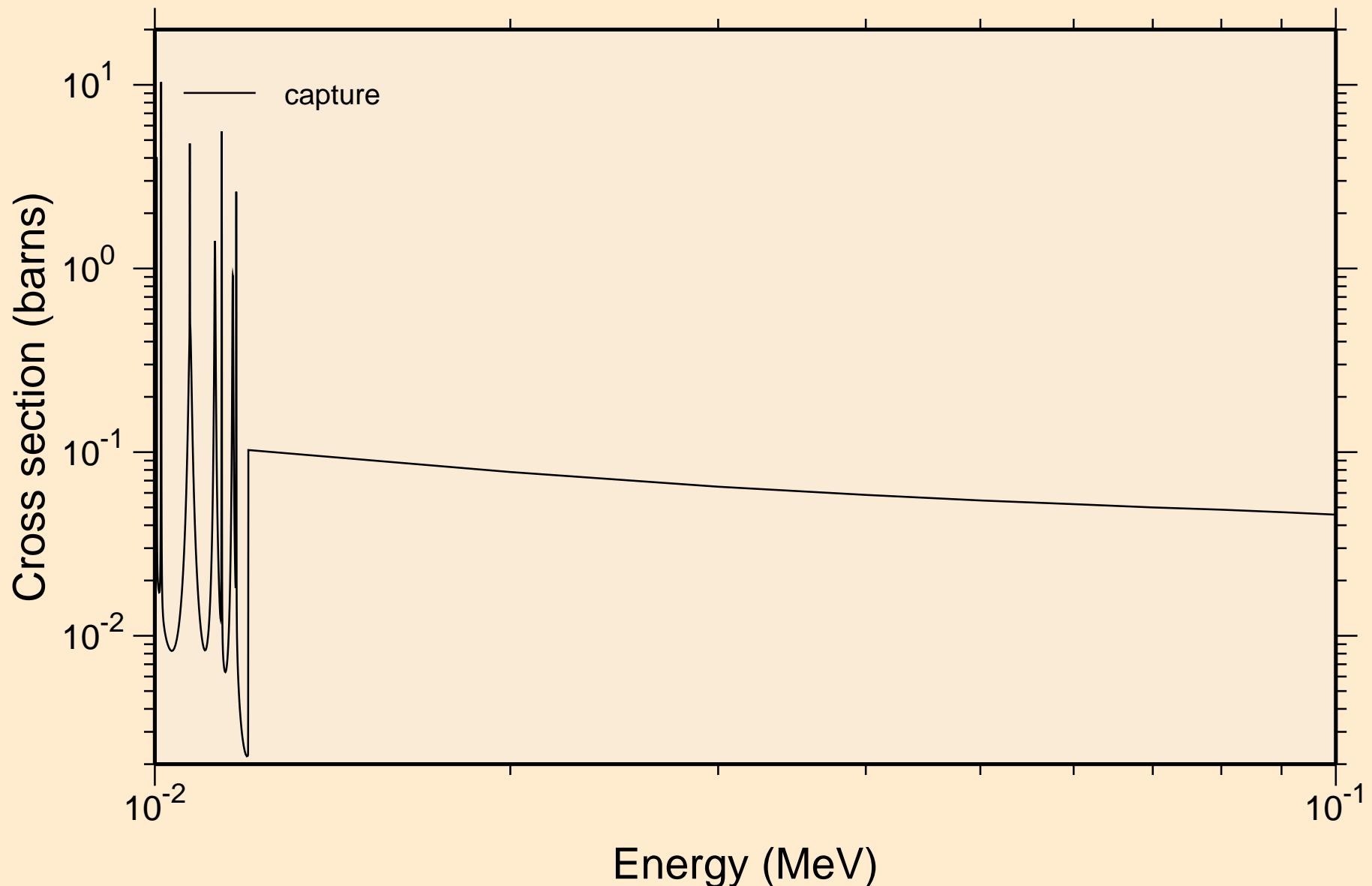
JENDL-4 ND-144  
resonance absorption cross sections



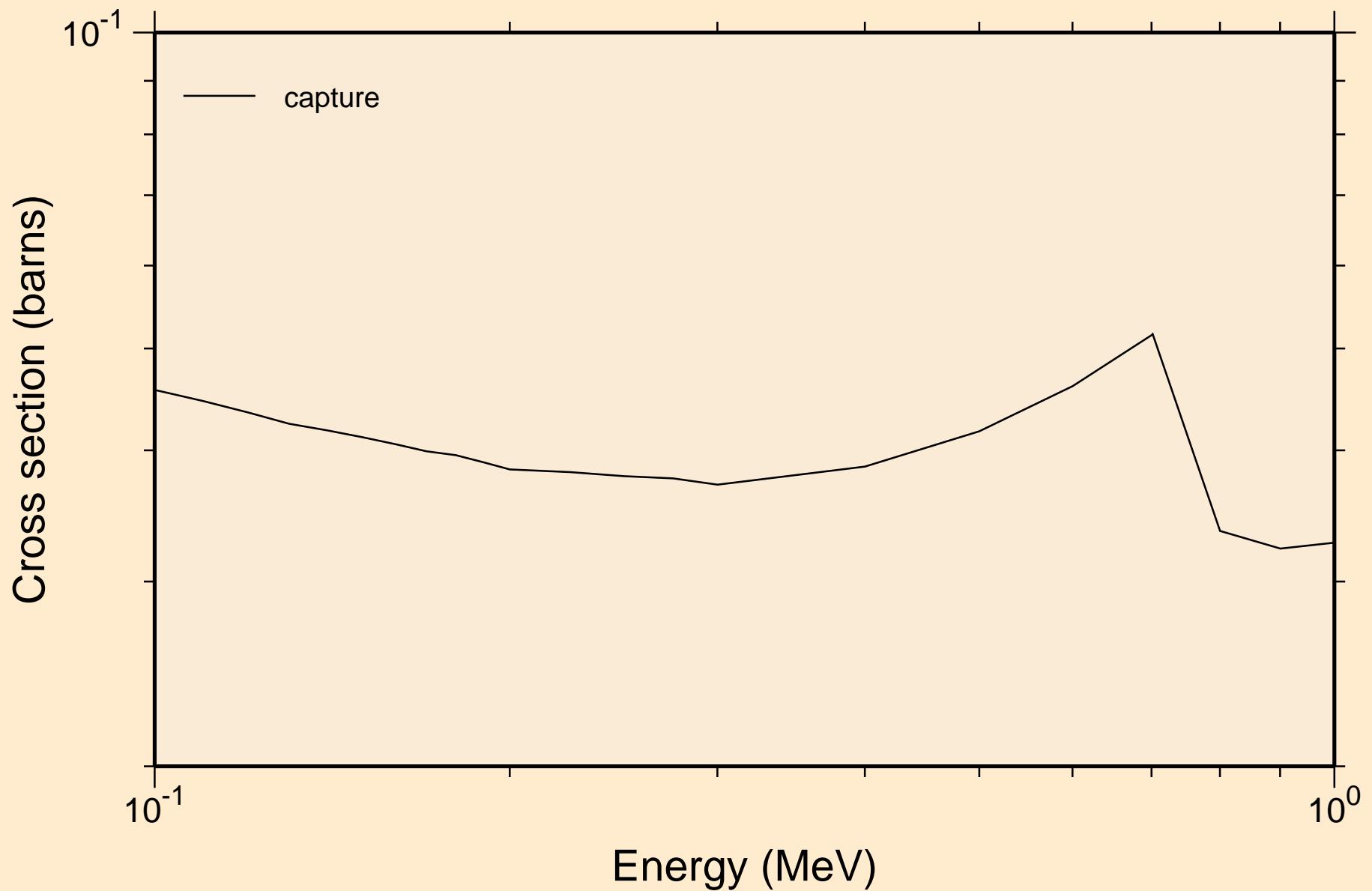
JENDL-4 ND-144  
resonance absorption cross sections



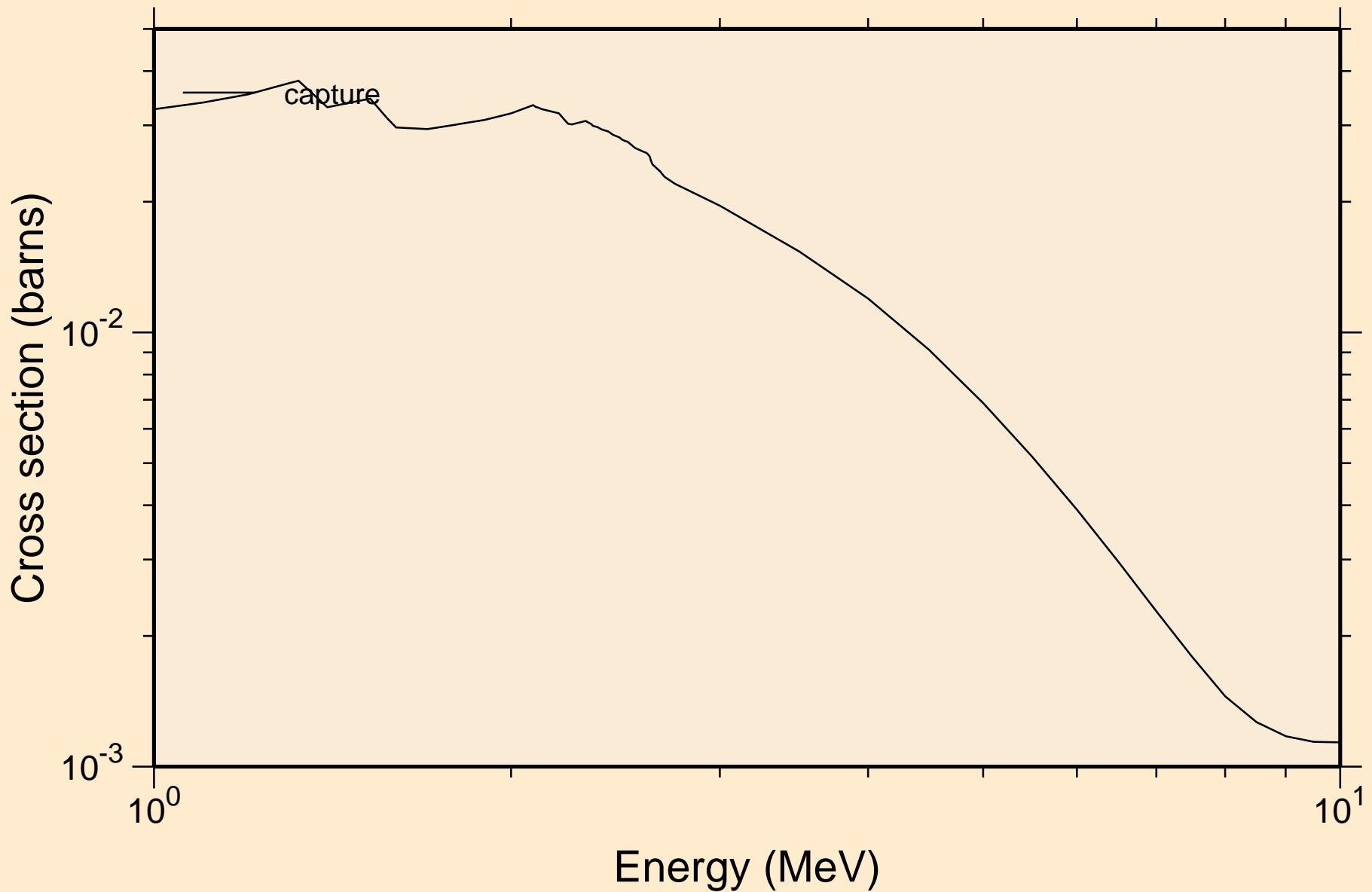
JENDL-4 ND-144  
resonance absorption cross sections



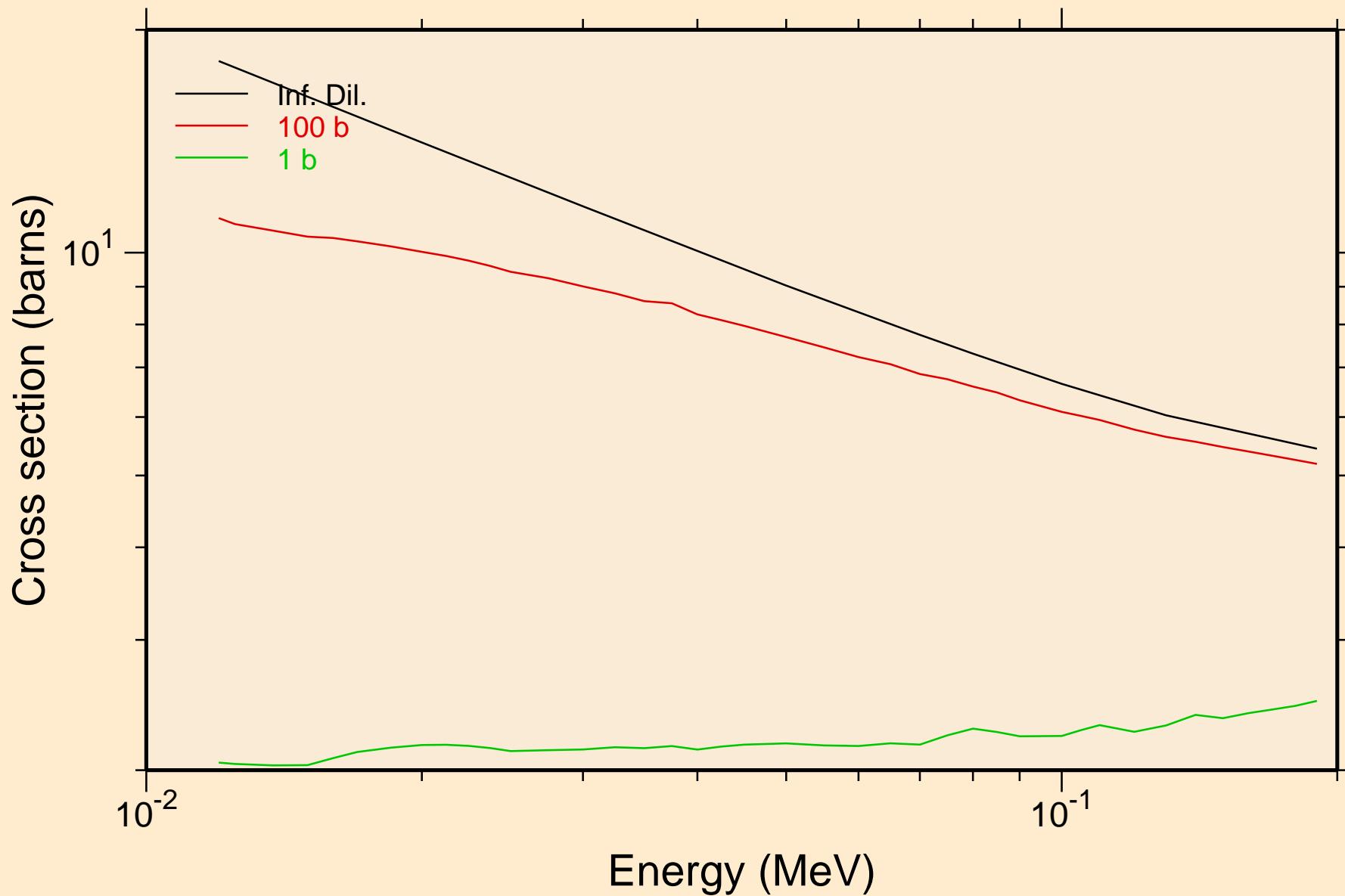
JENDL-4 ND-144  
resonance absorption cross sections



JENDL-4 ND-144  
resonance absorption cross sections

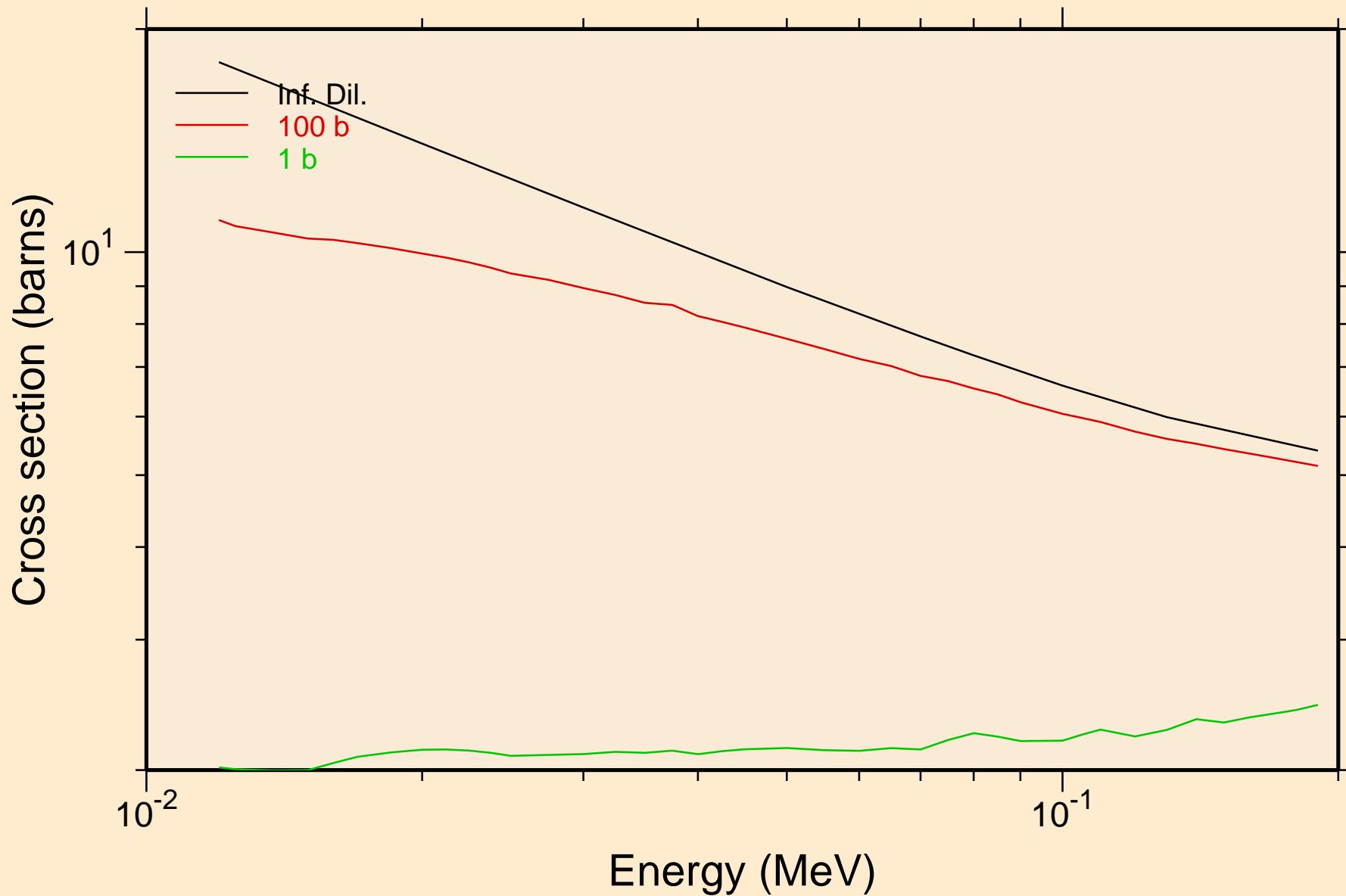


JENDL-4 ND-144  
UR total cross section



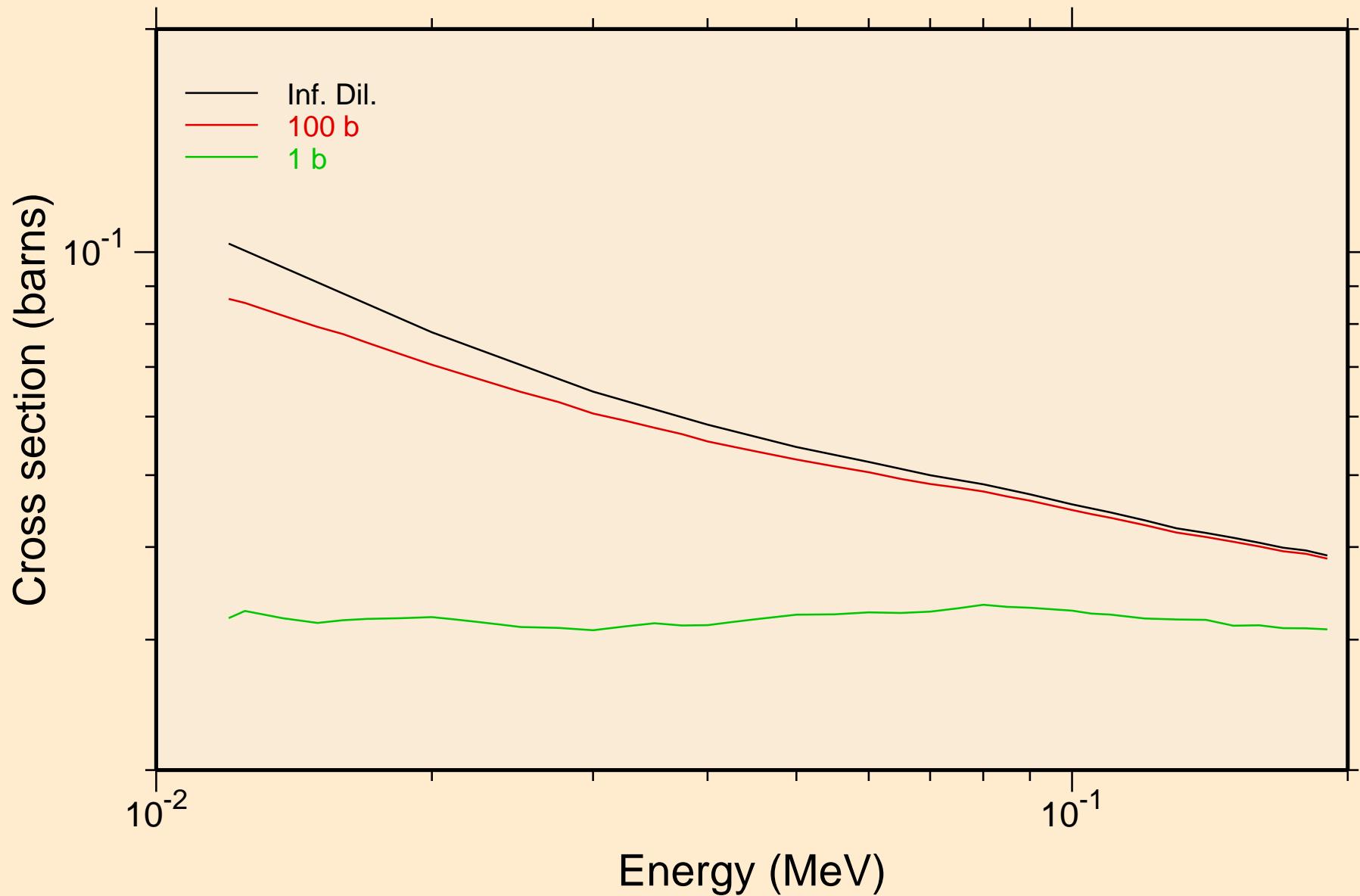
# JENDL-4 ND-144

## UR elastic cross section

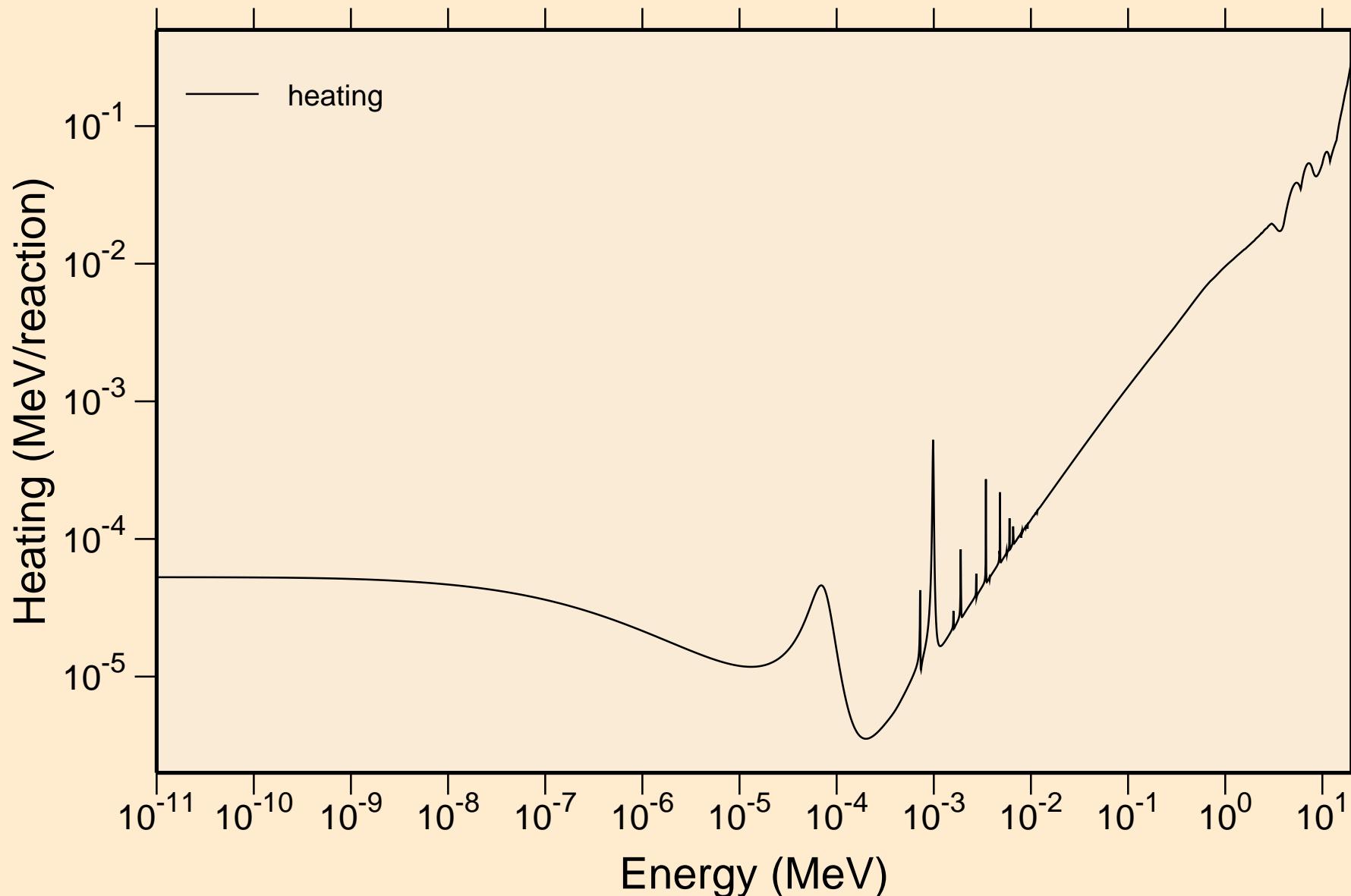


# JENDL-4 ND-144

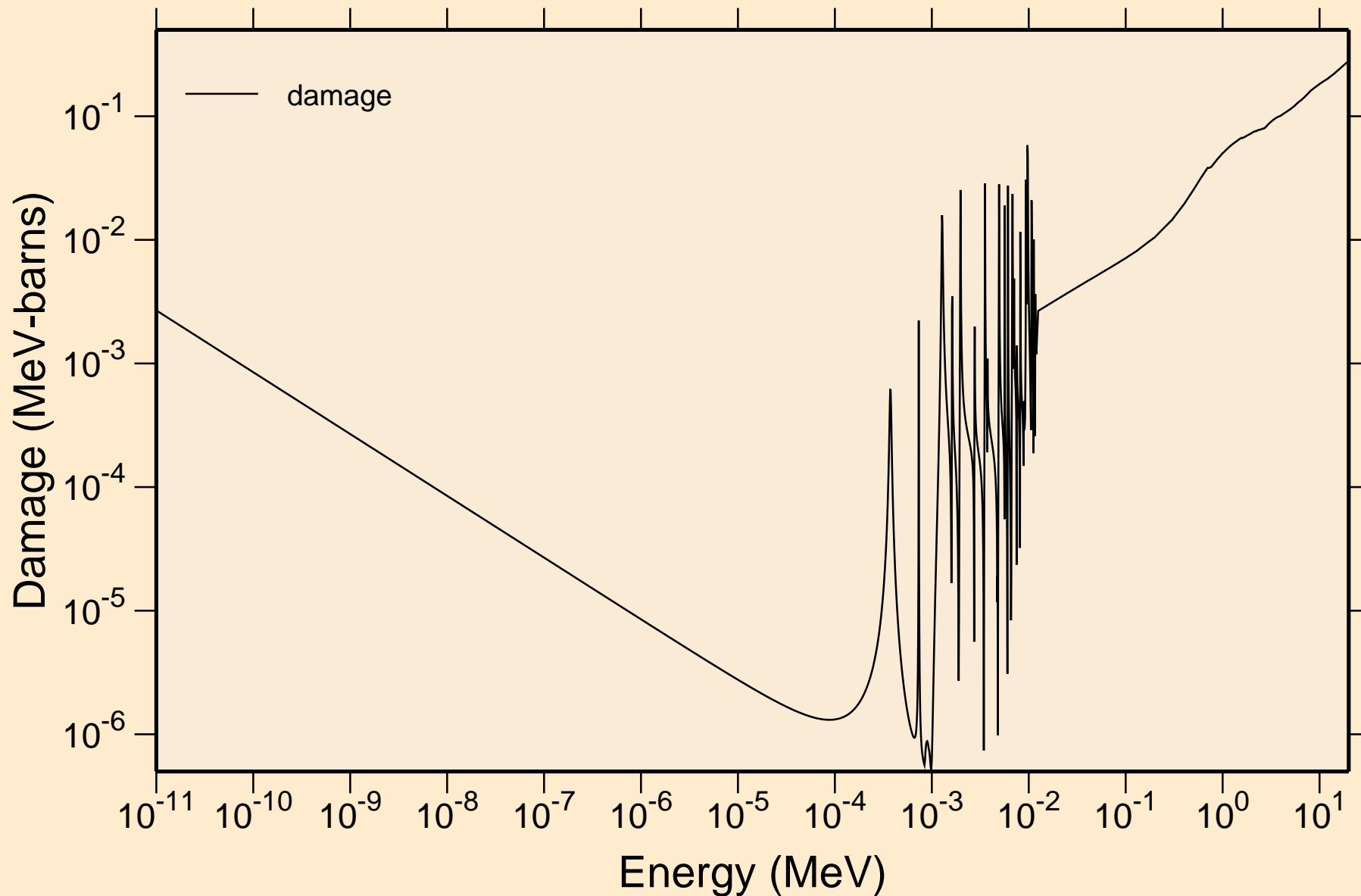
## UR capture cross section



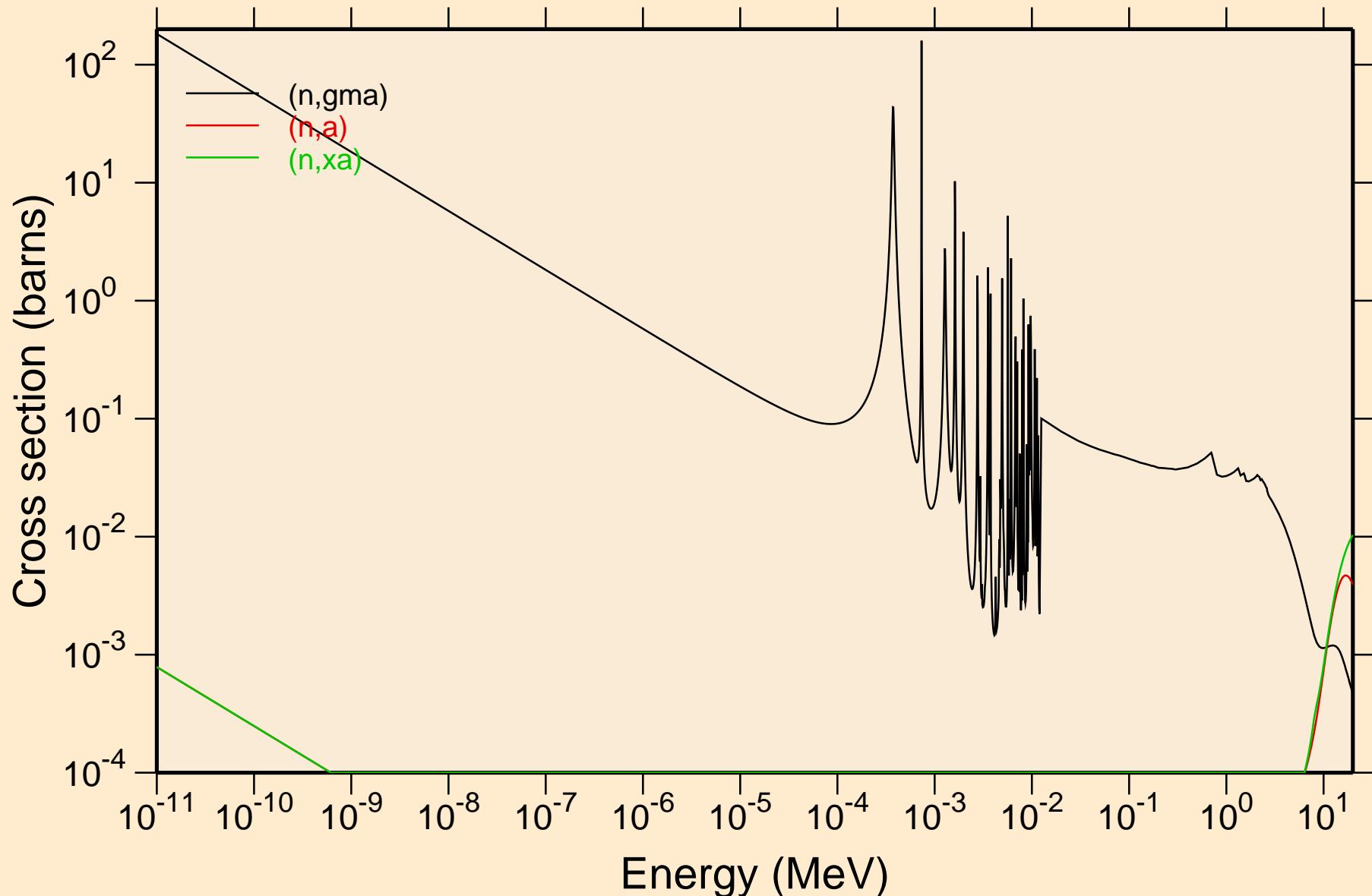
JENDL-4 ND-144  
Heating



JENDL-4 ND-144  
Damage

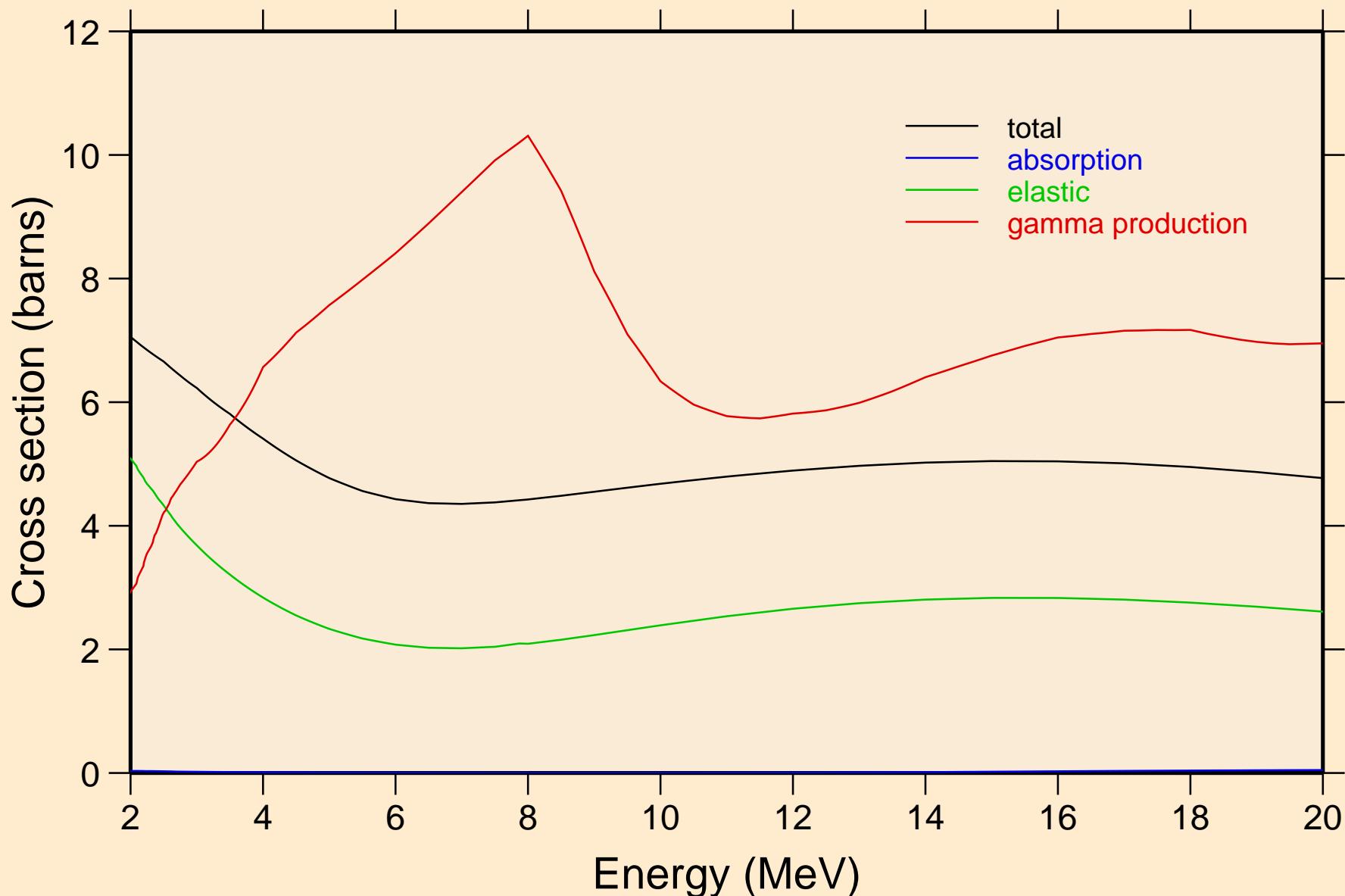


JENDL-4 ND-144  
Non-threshold reactions

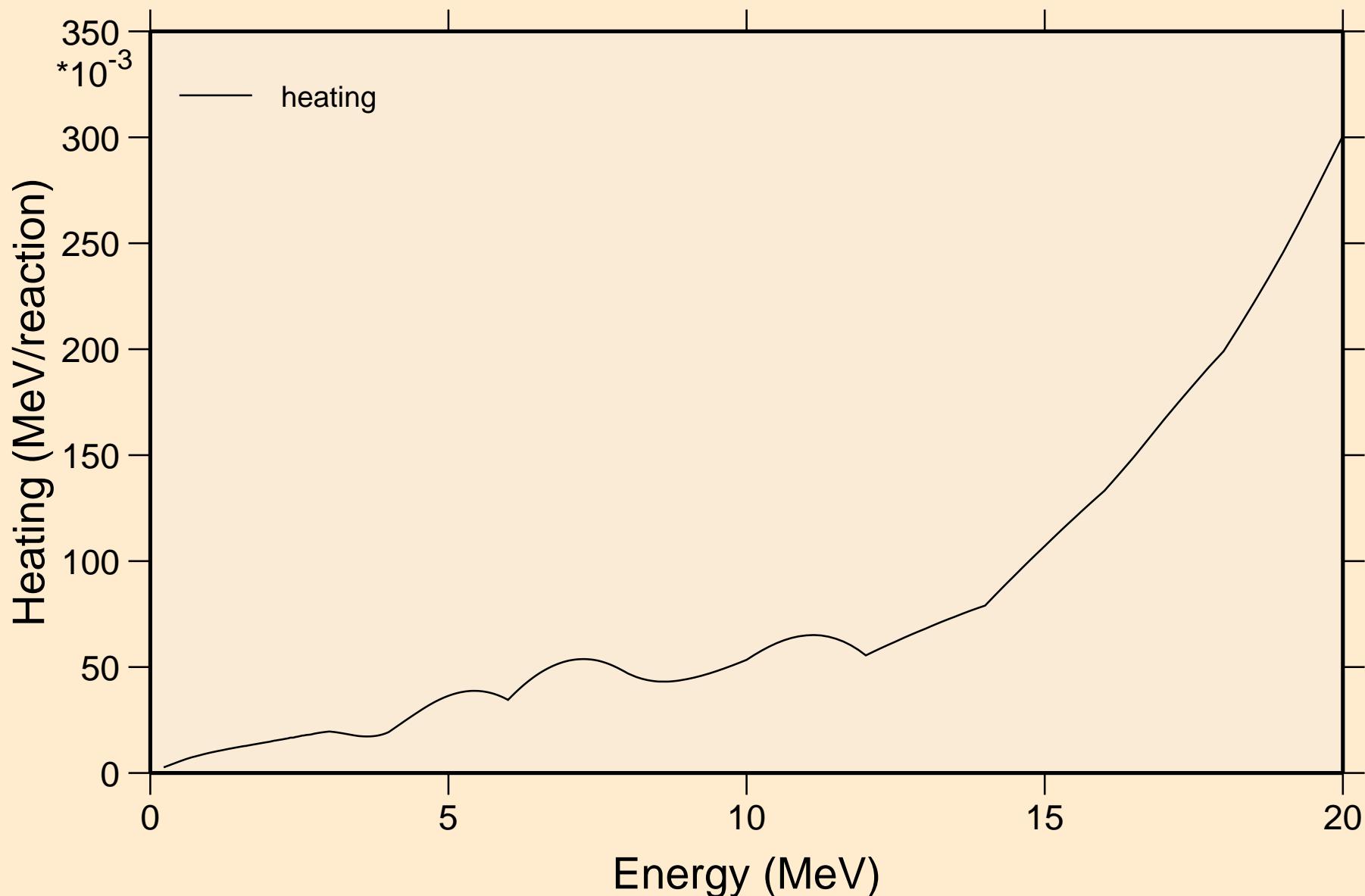


# JENDL-4 ND-144

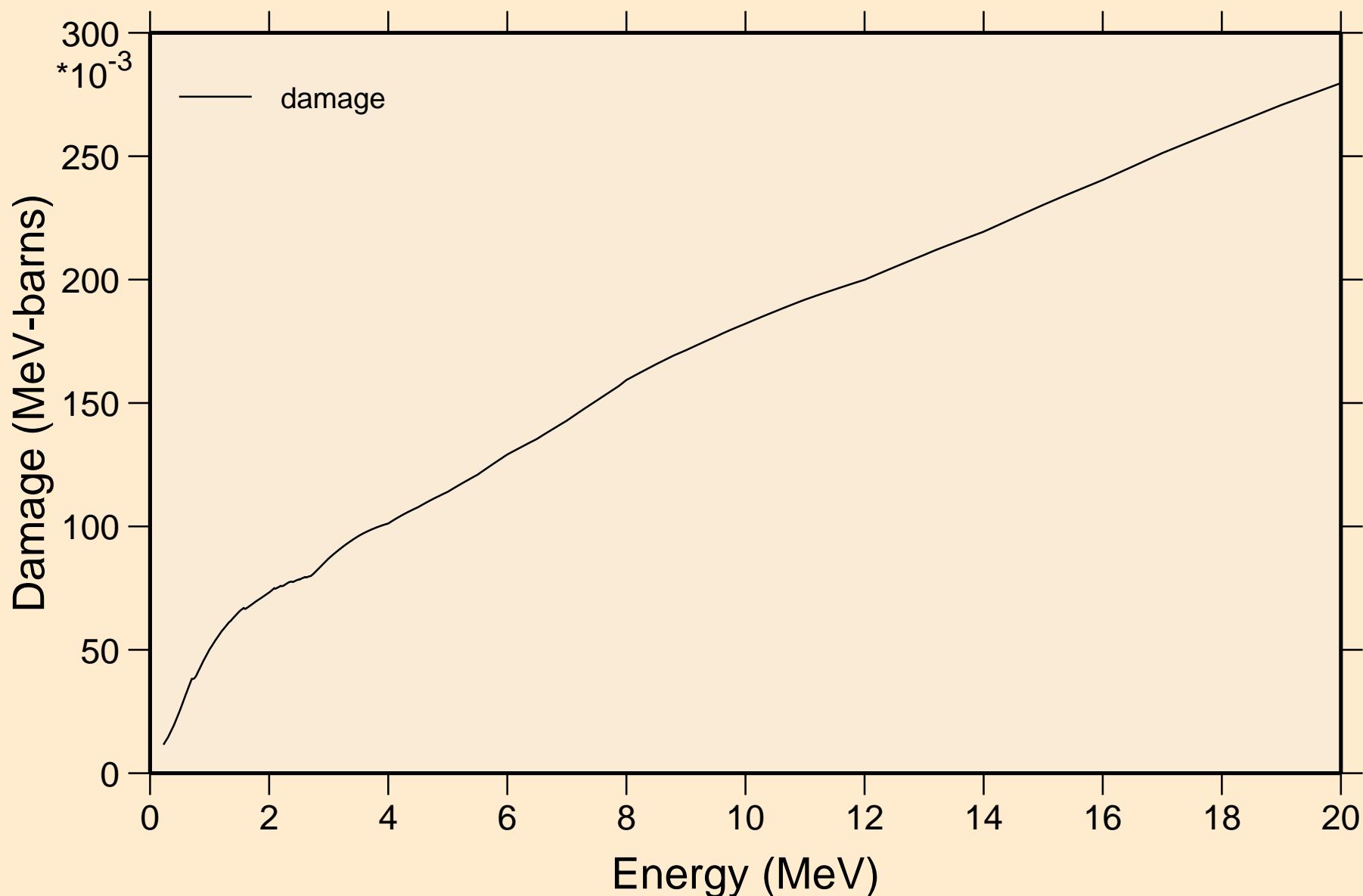
## Principal cross sections



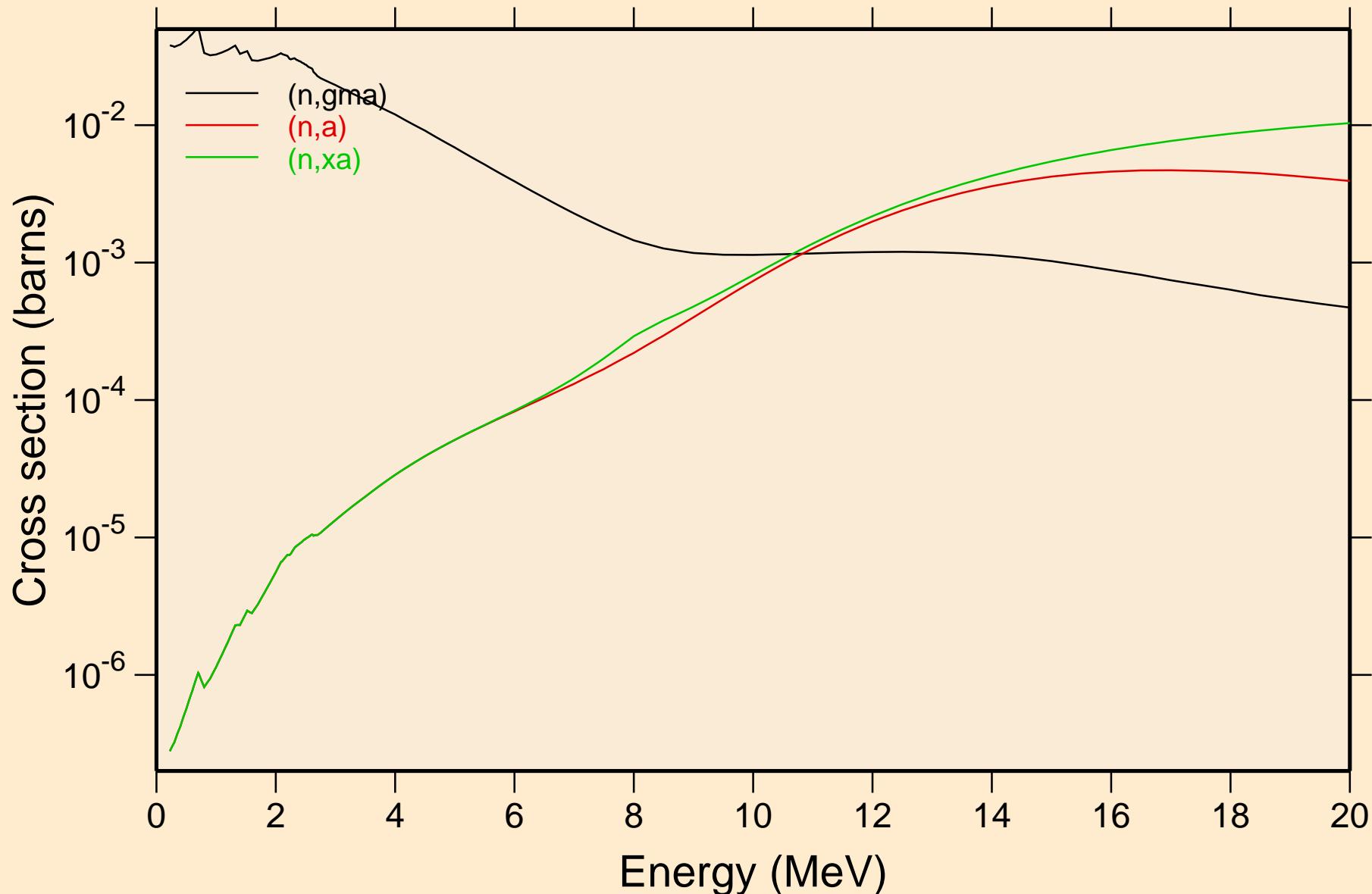
JENDL-4 ND-144  
Heating



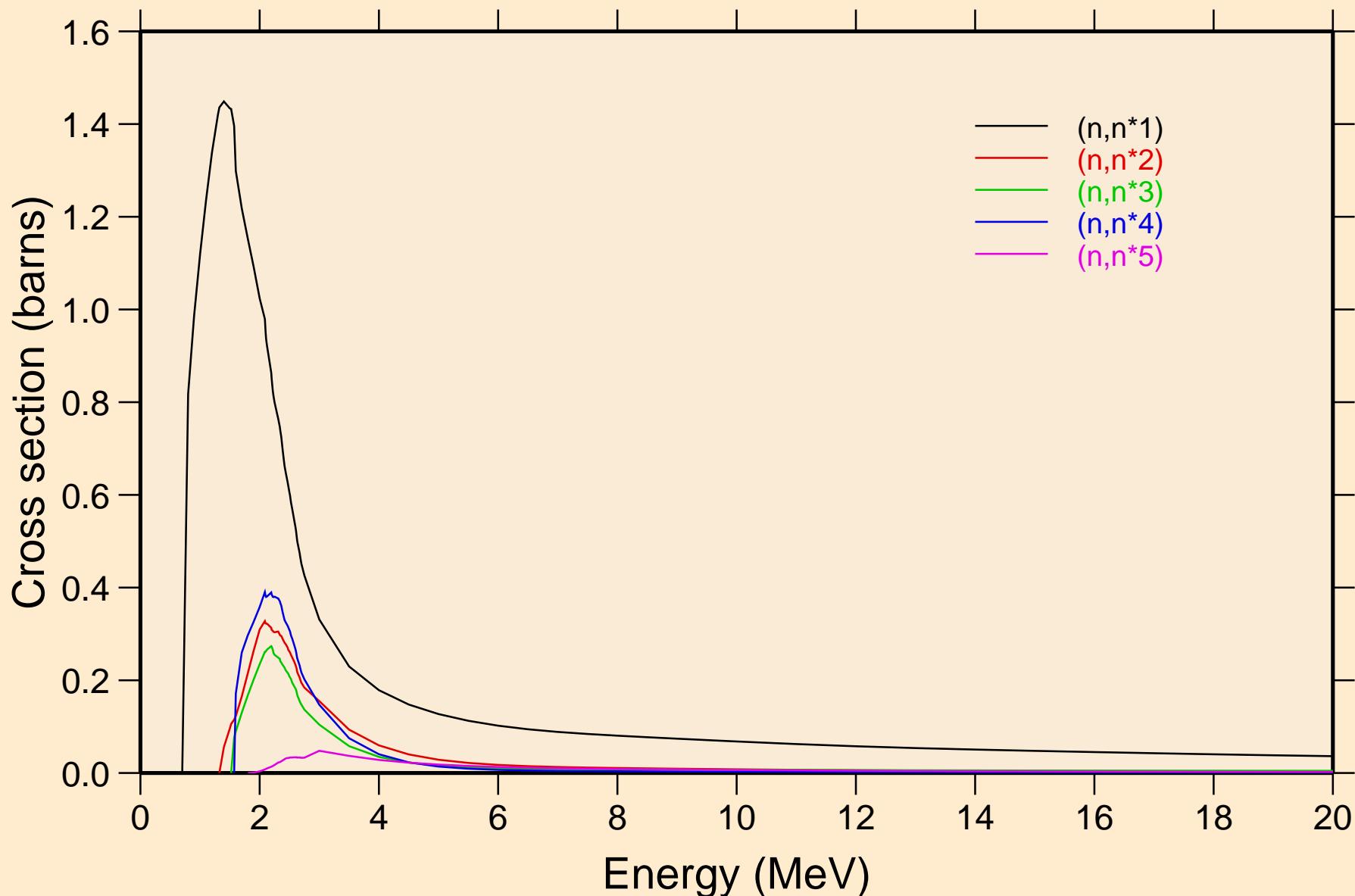
JENDL-4 ND-144  
Damage



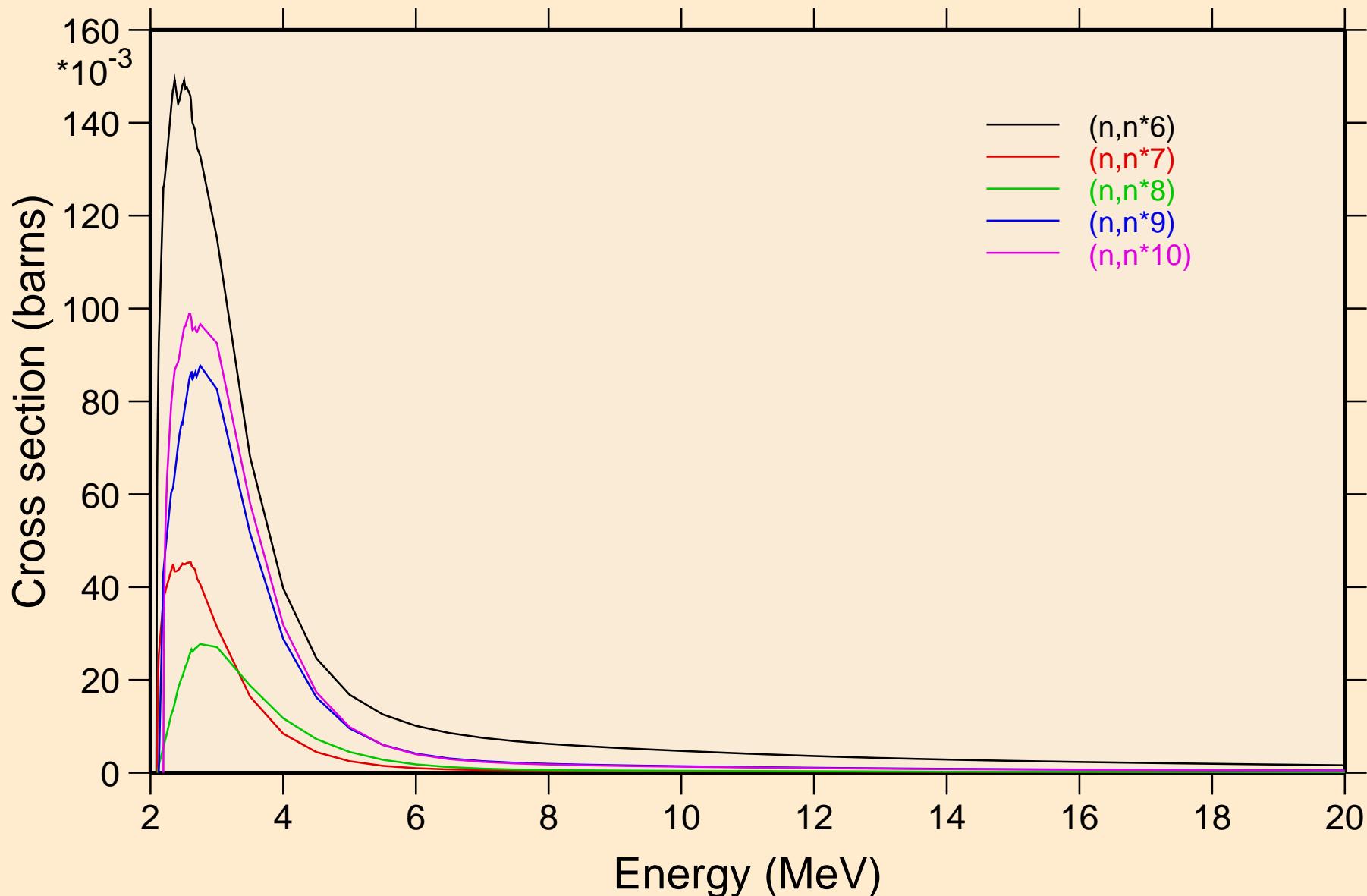
JENDL-4 ND-144  
Non-threshold reactions



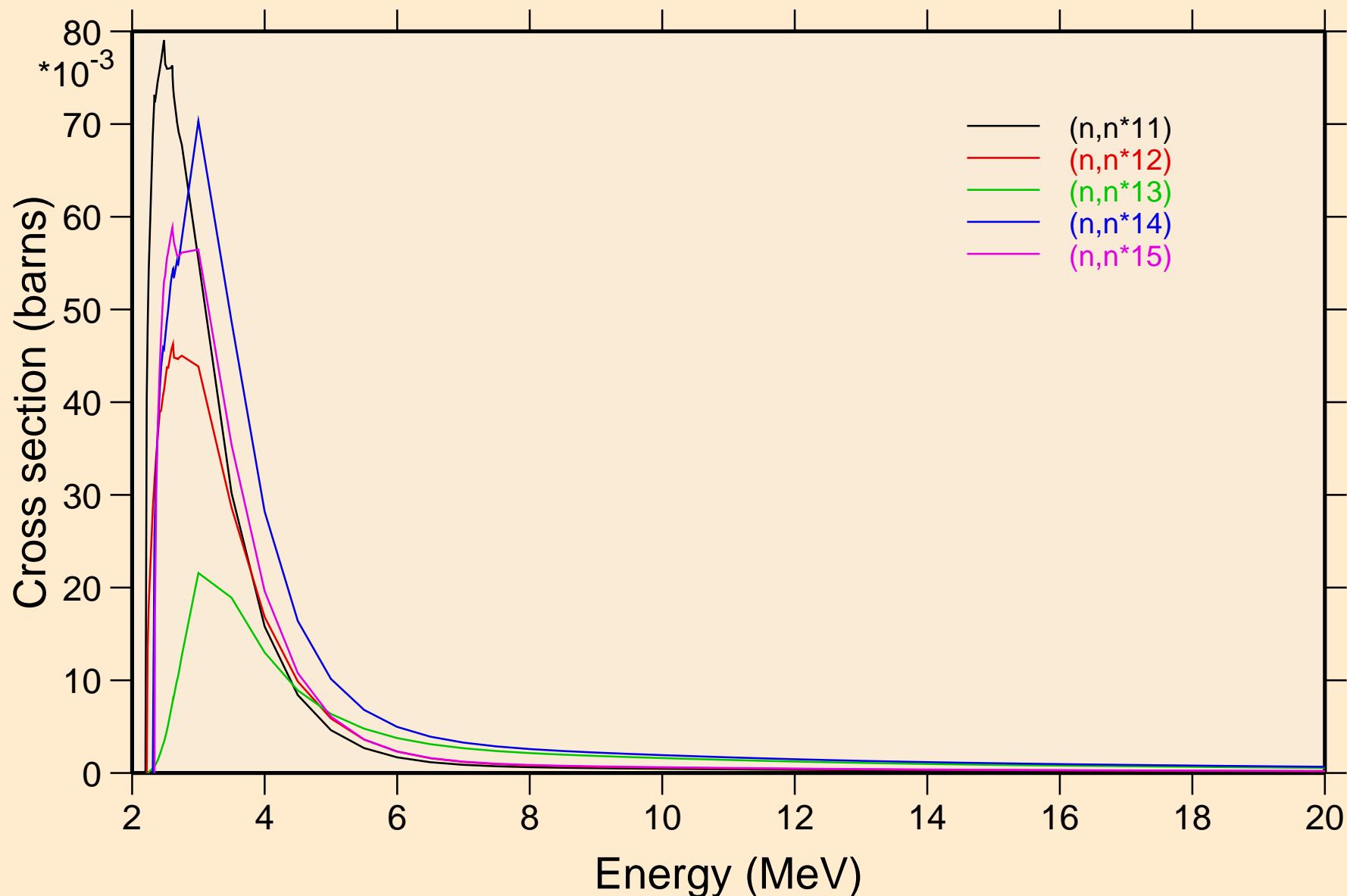
JENDL-4 ND-144  
Inelastic levels



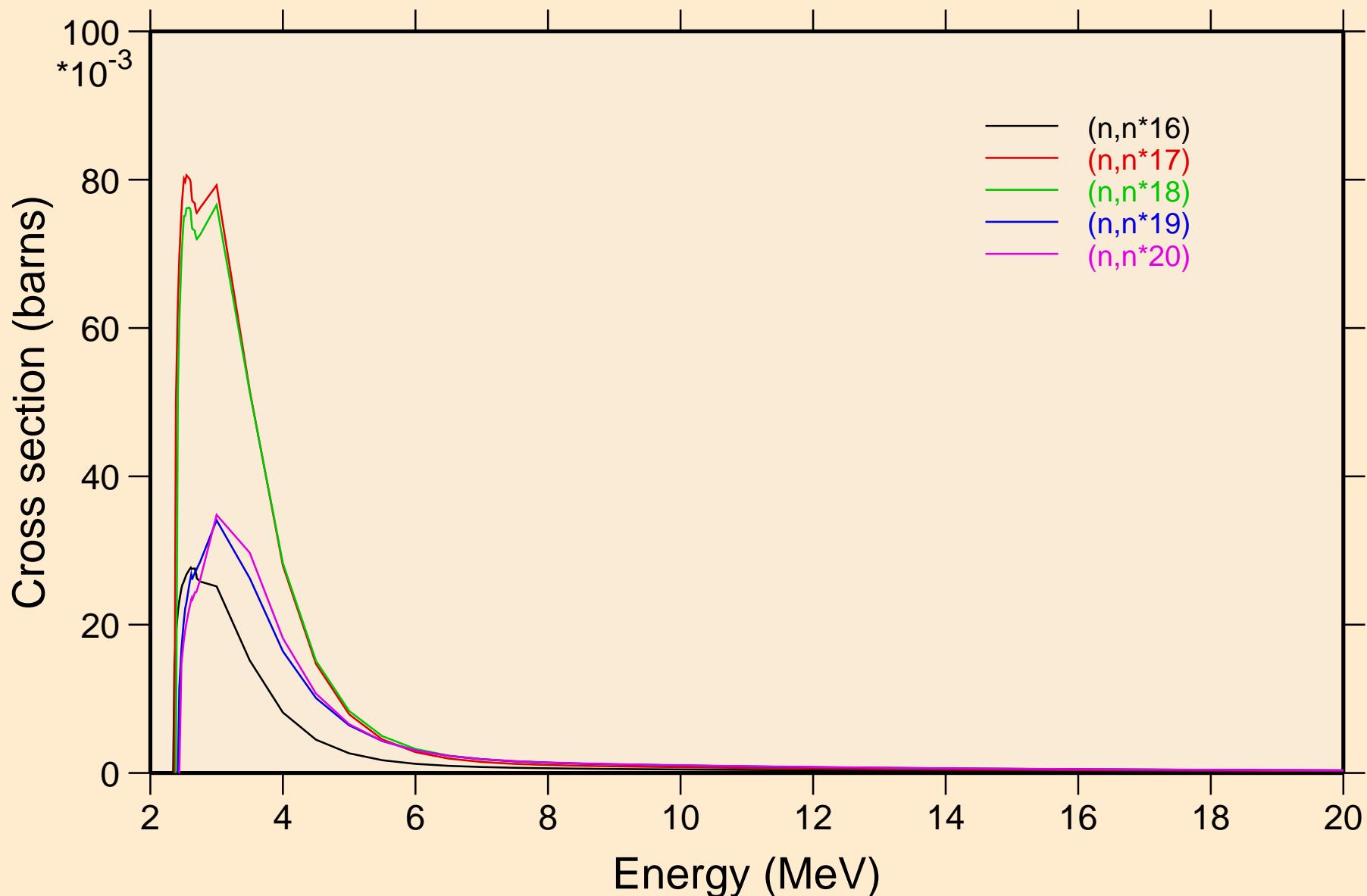
JENDL-4 ND-144  
Inelastic levels



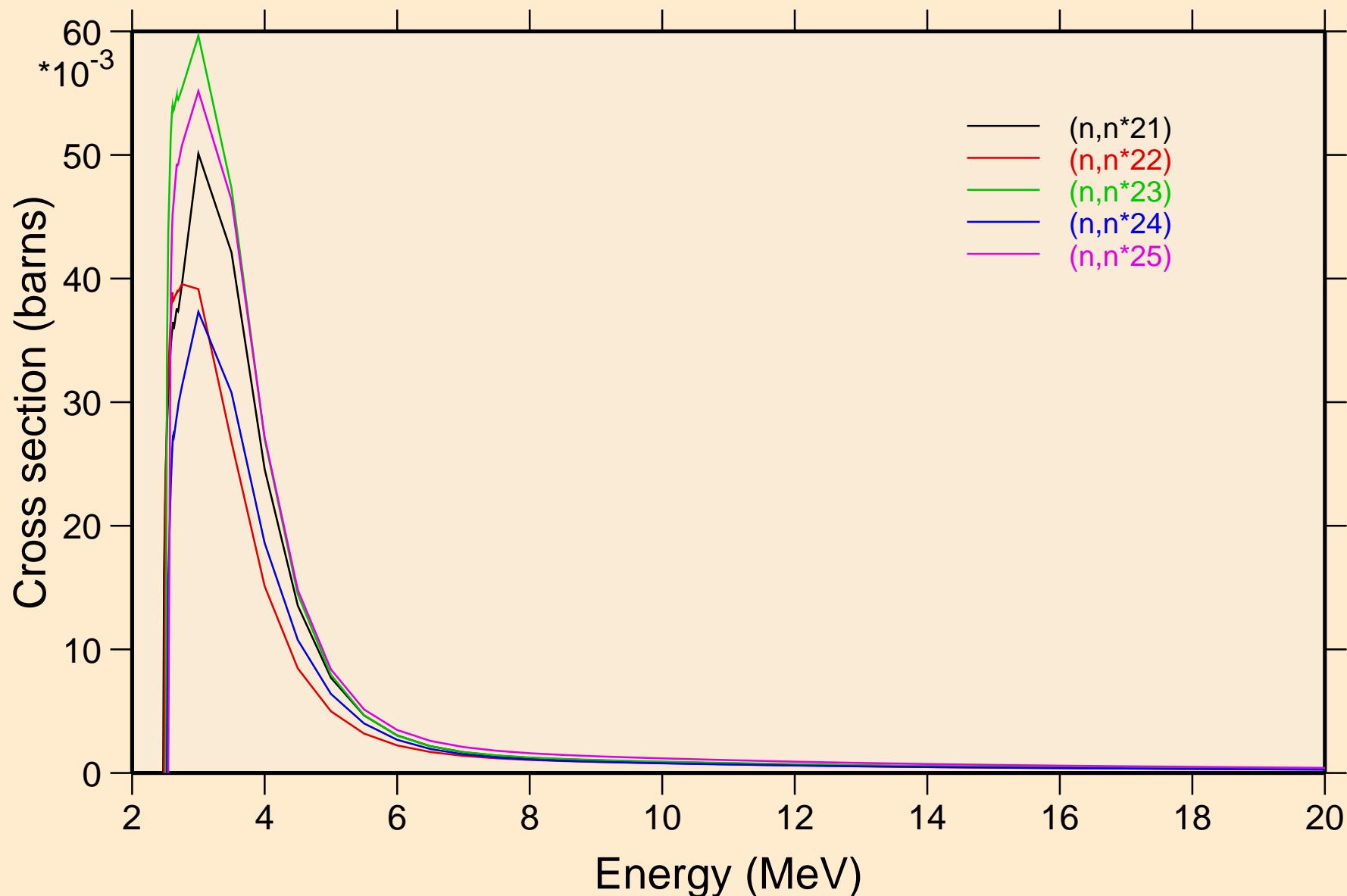
JENDL-4 ND-144  
Inelastic levels



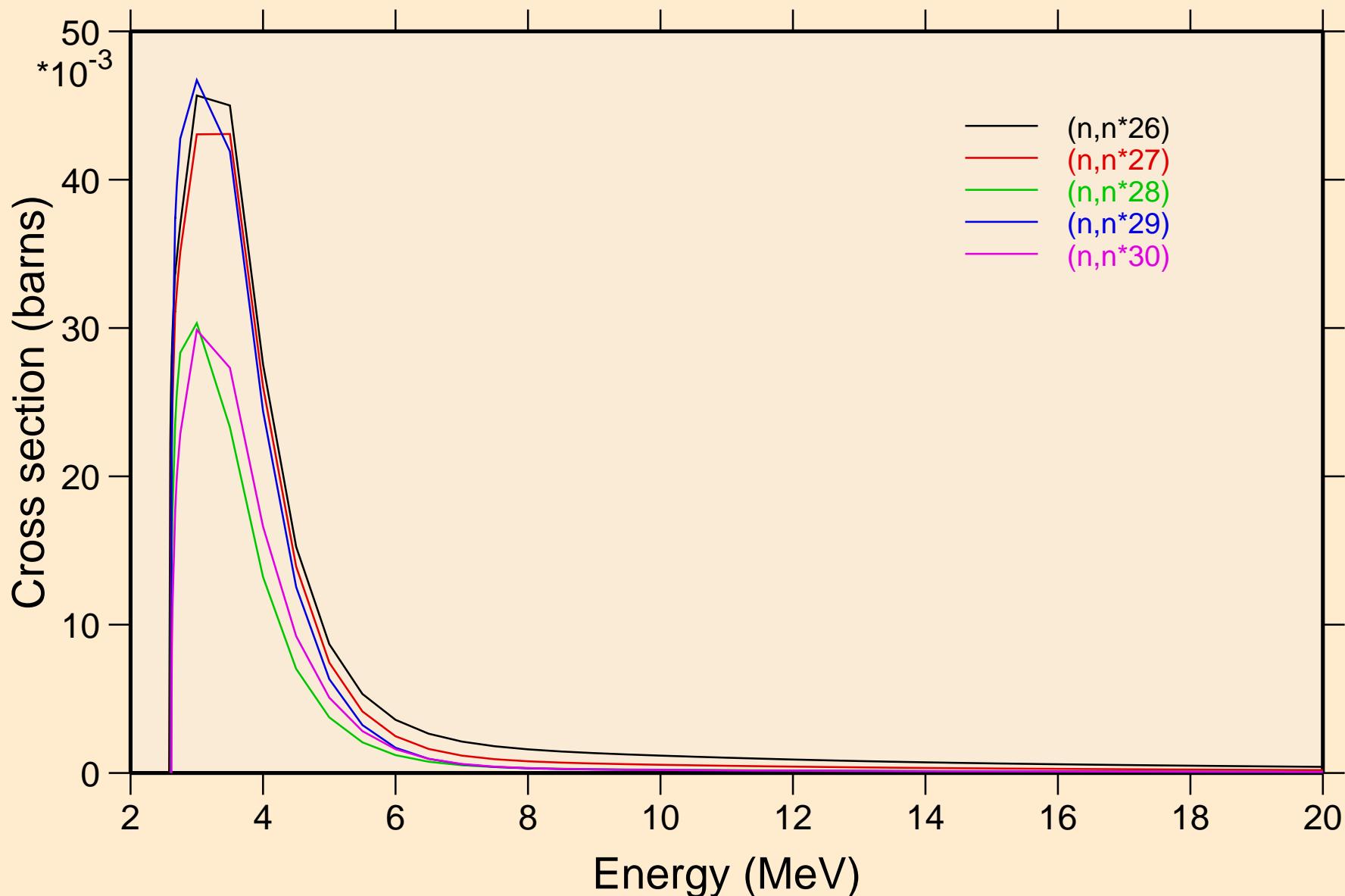
JENDL-4 ND-144  
Inelastic levels



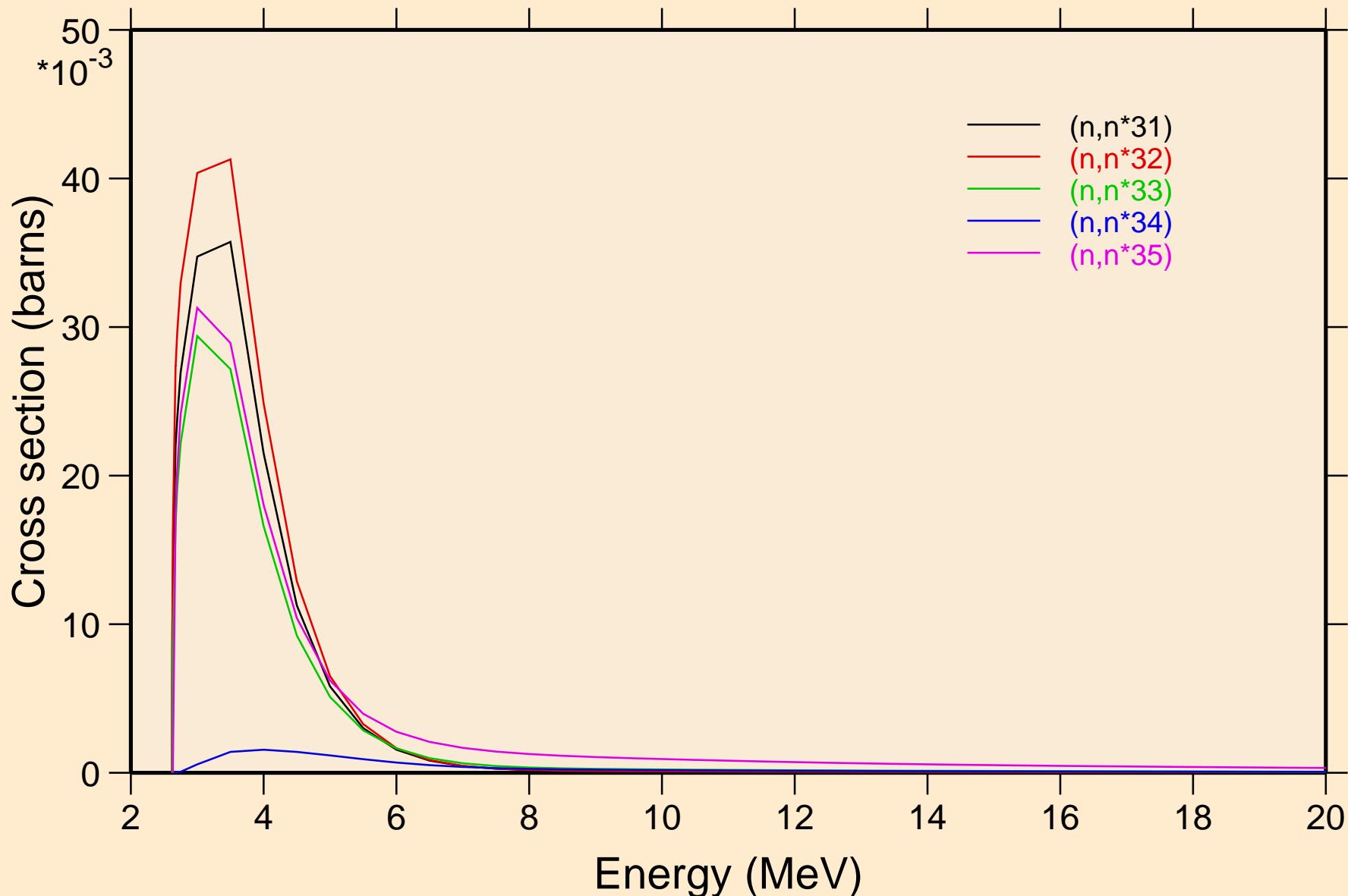
JENDL-4 ND-144  
Inelastic levels



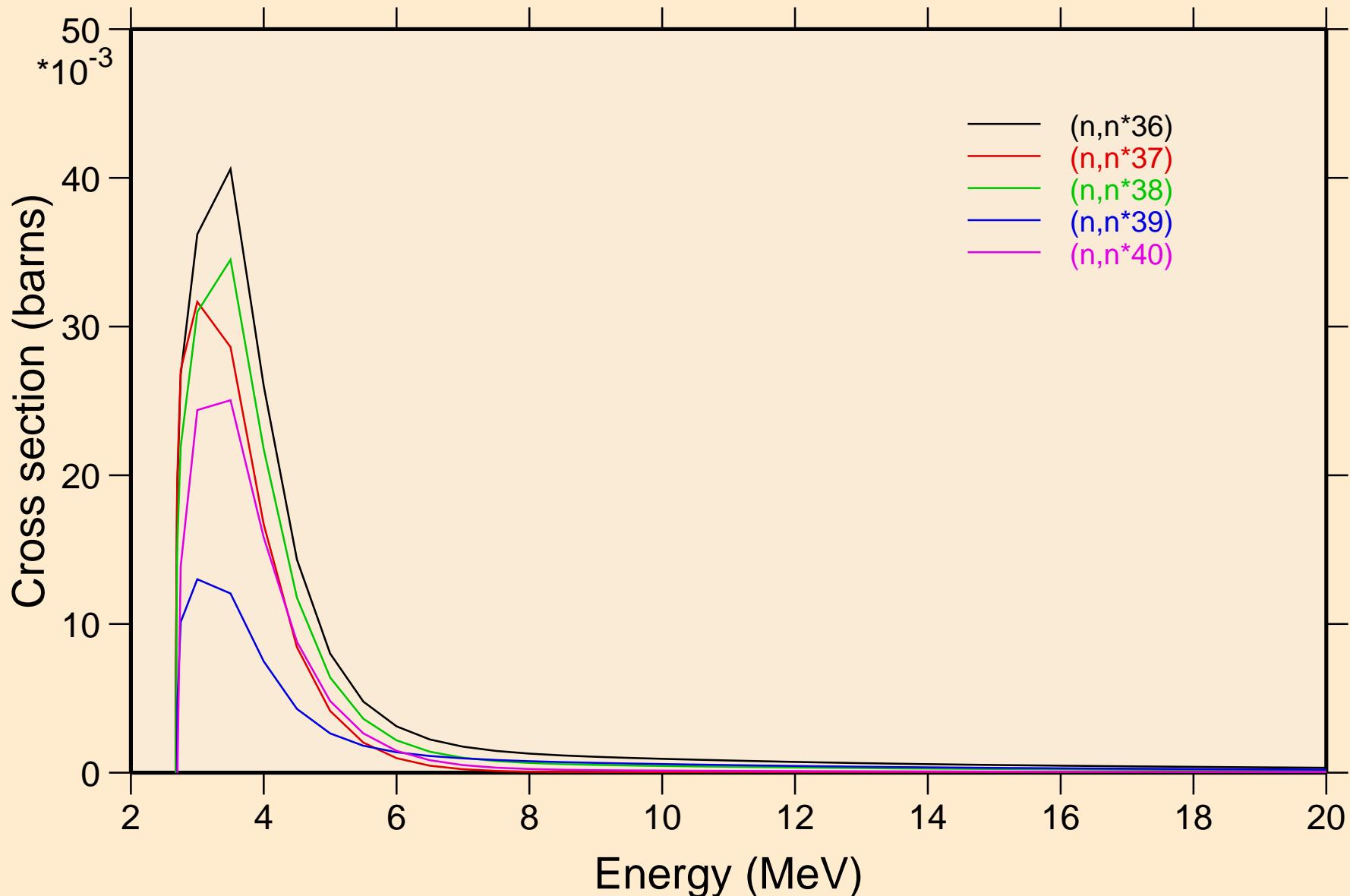
JENDL-4 ND-144  
Inelastic levels



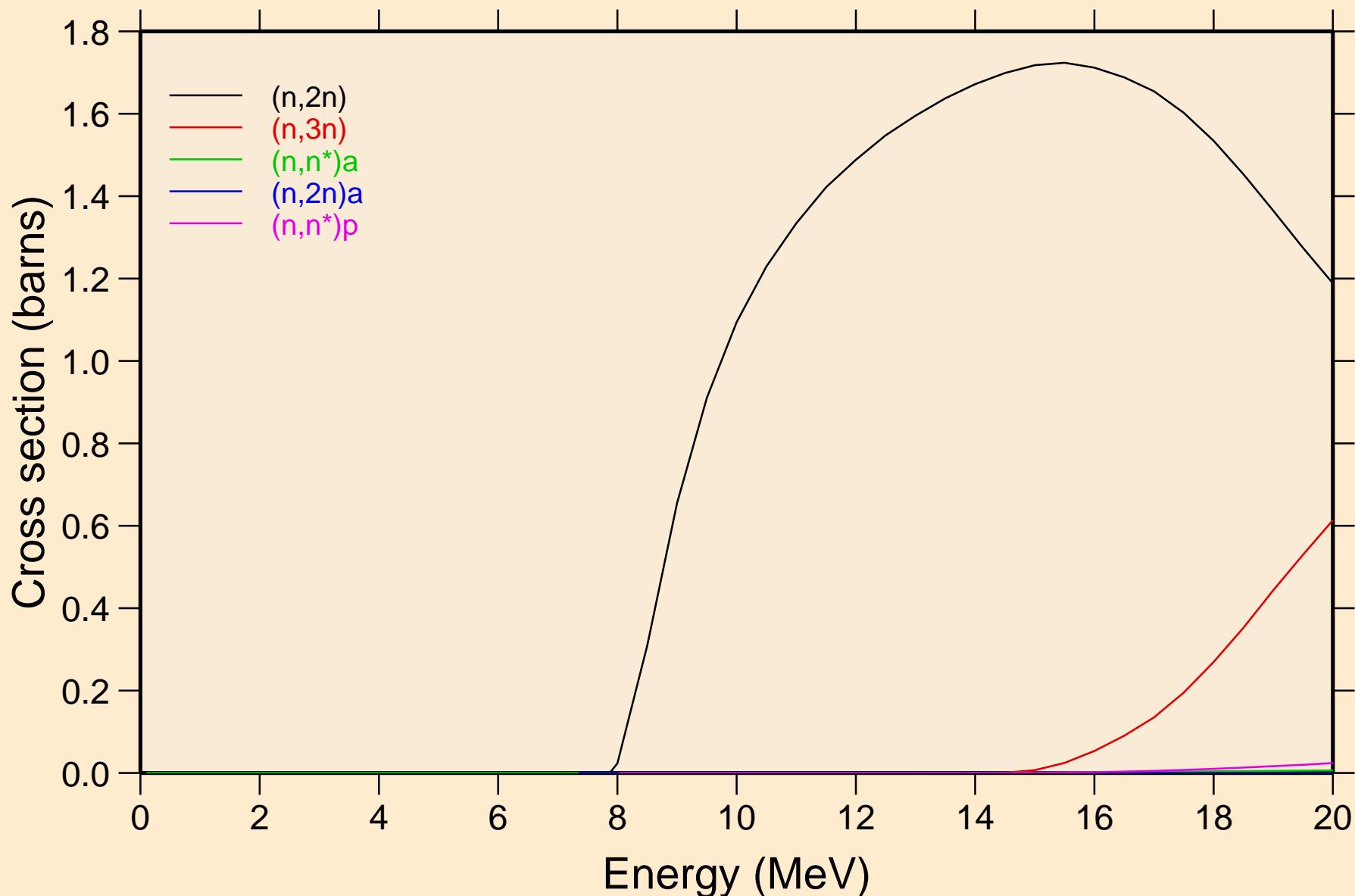
JENDL-4 ND-144  
Inelastic levels



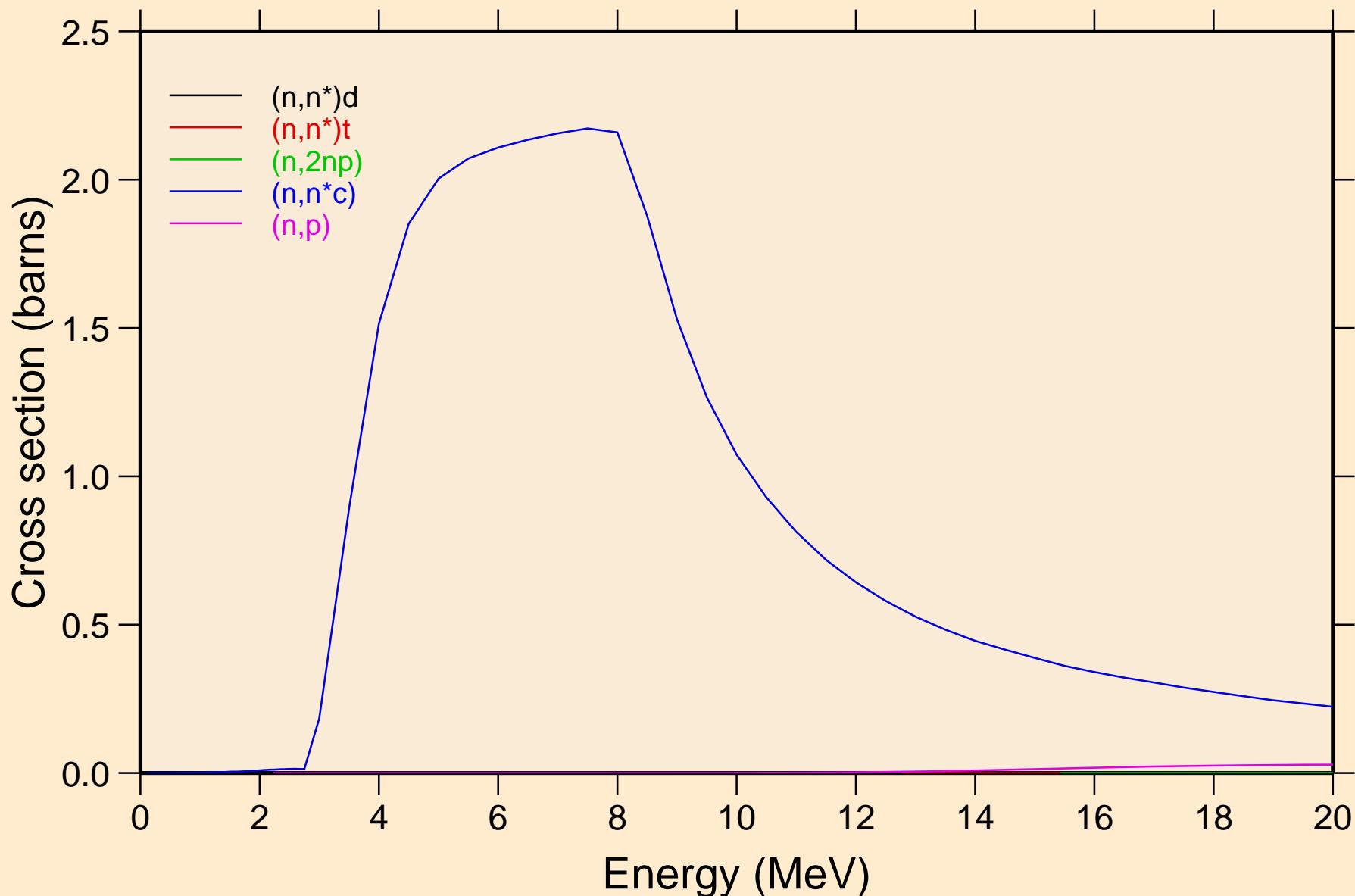
JENDL-4 ND-144  
Inelastic levels



JENDL-4 ND-144  
Threshold reactions

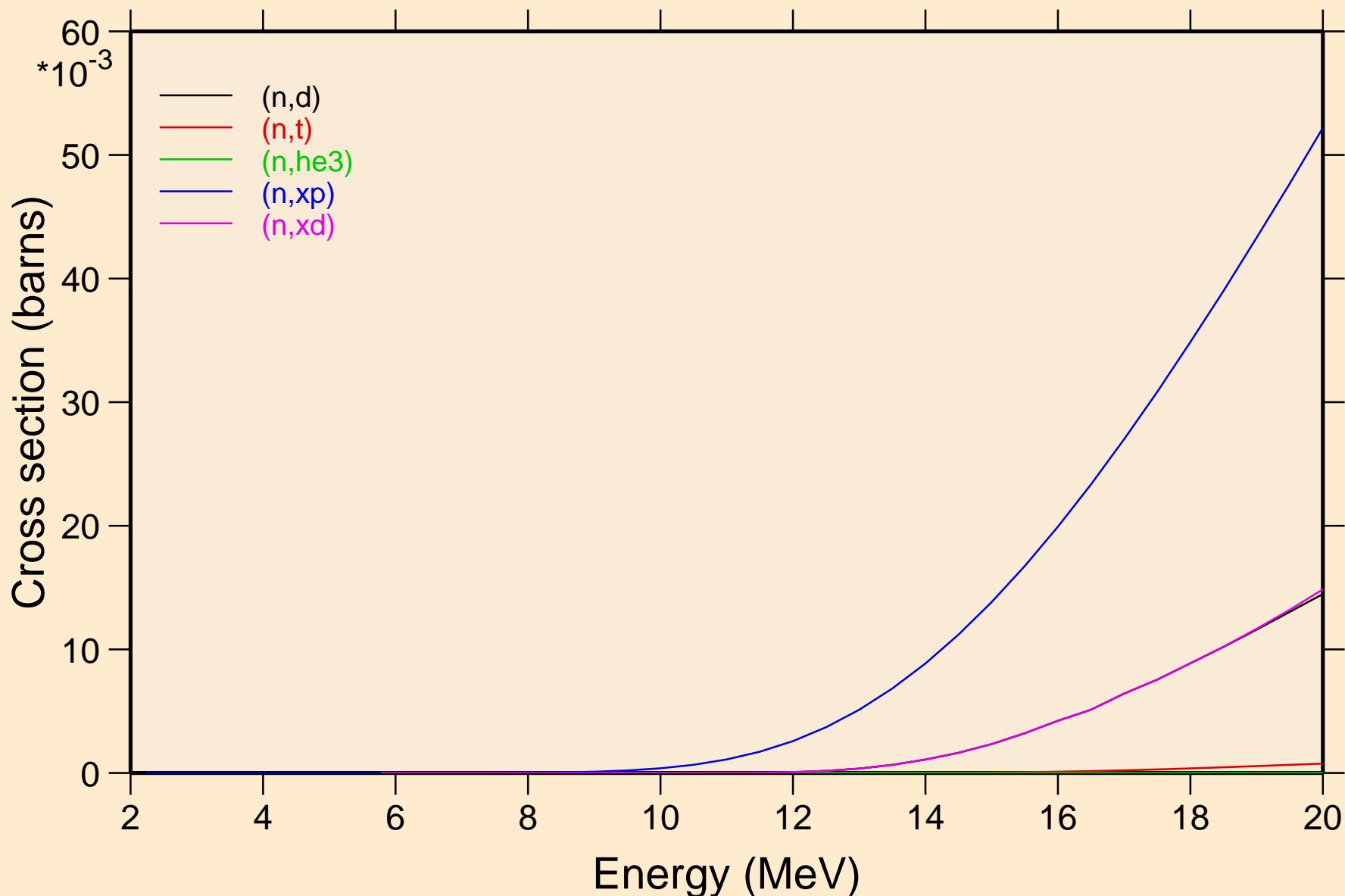


JENDL-4 ND-144  
Threshold reactions

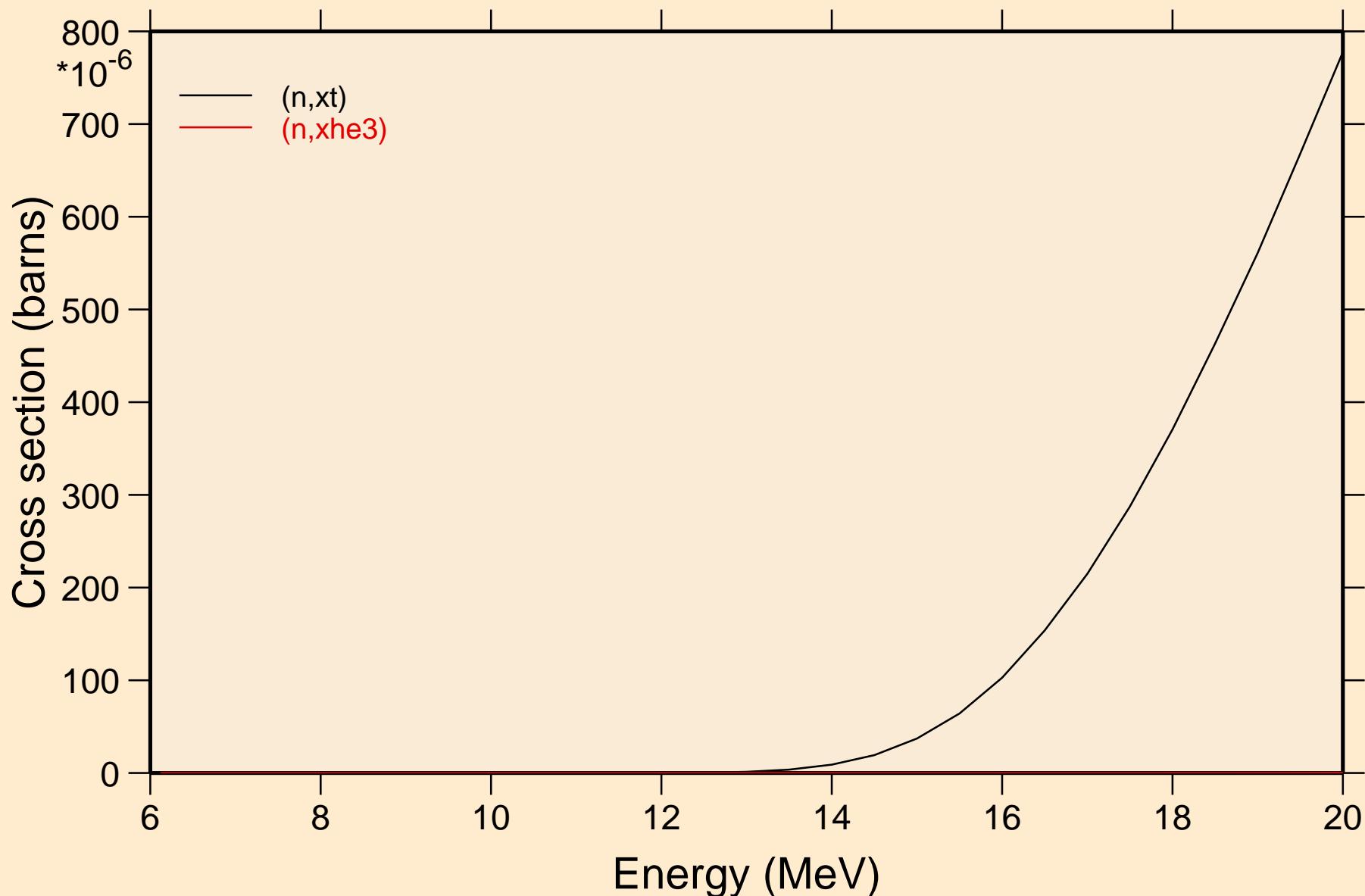


# JENDL-4 ND-144

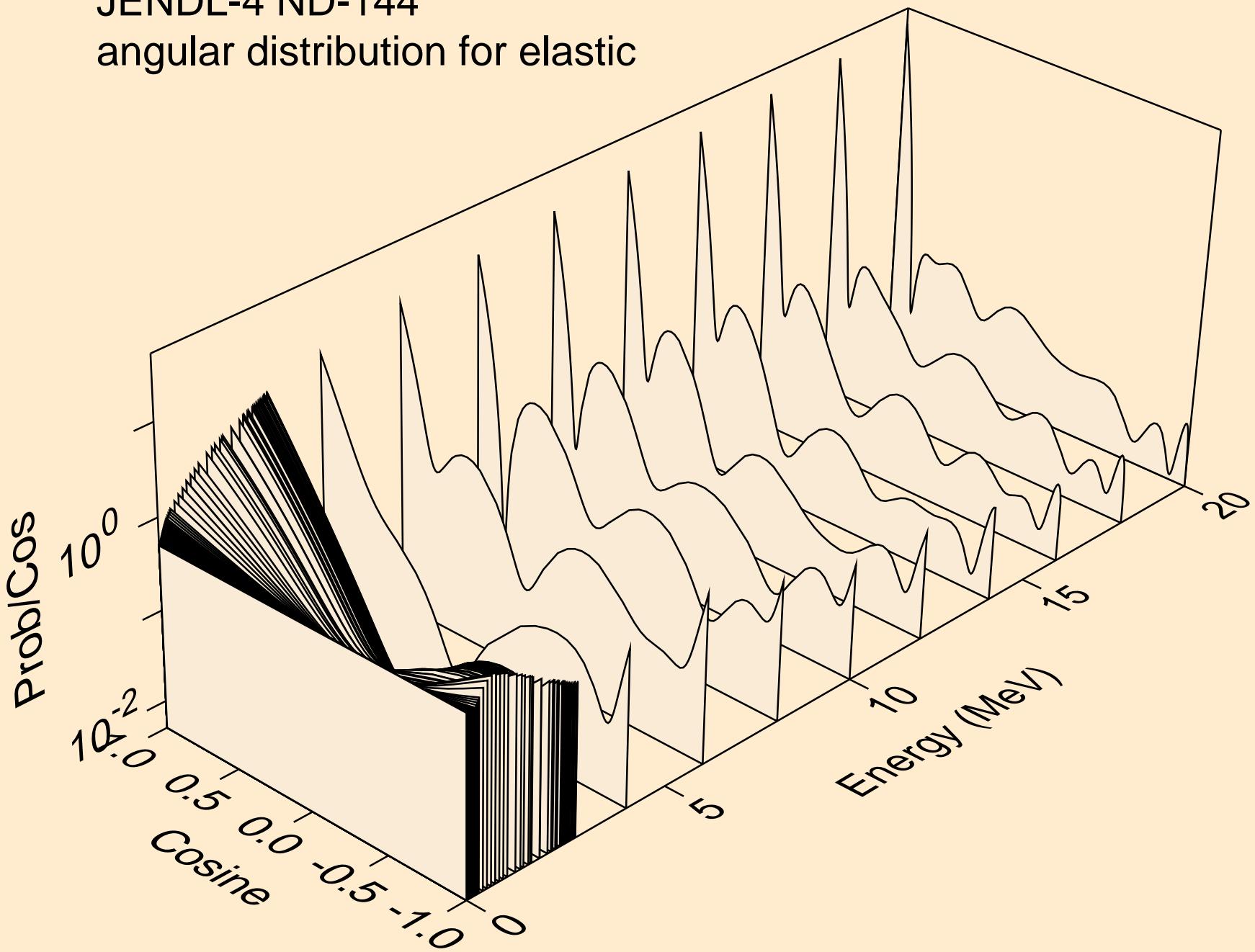
## Threshold reactions



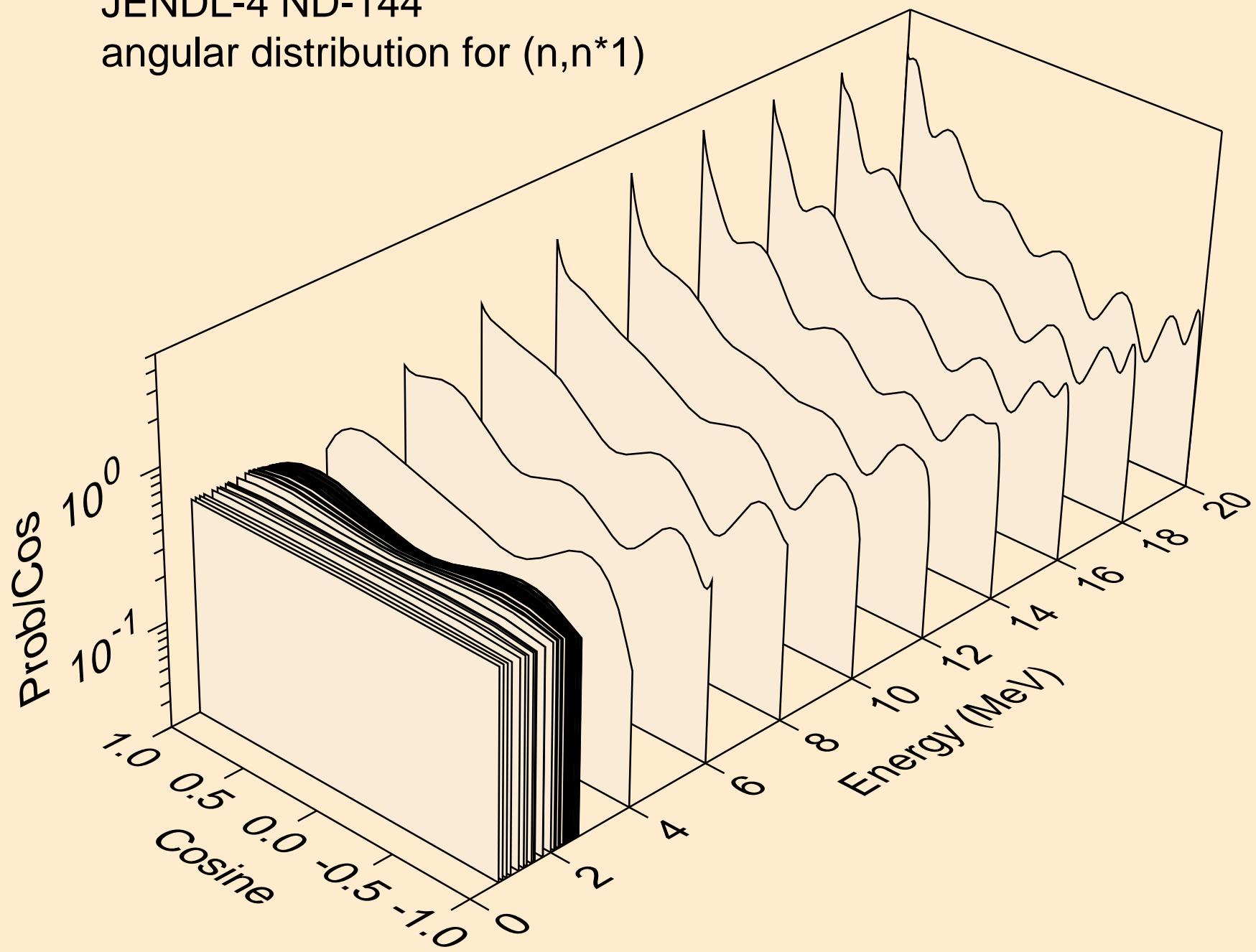
JENDL-4 ND-144  
Threshold reactions



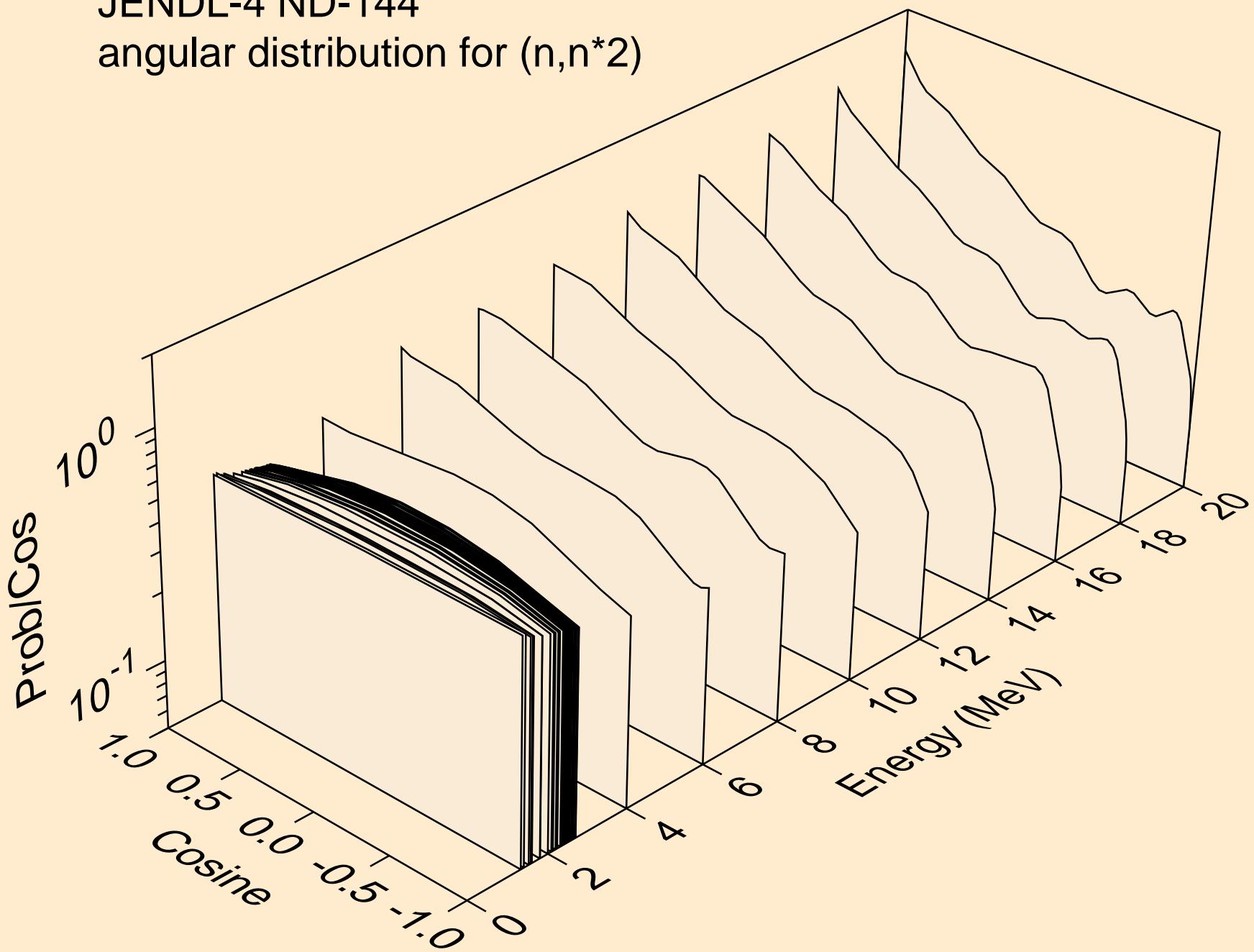
JENDL-4 ND-144  
angular distribution for elastic



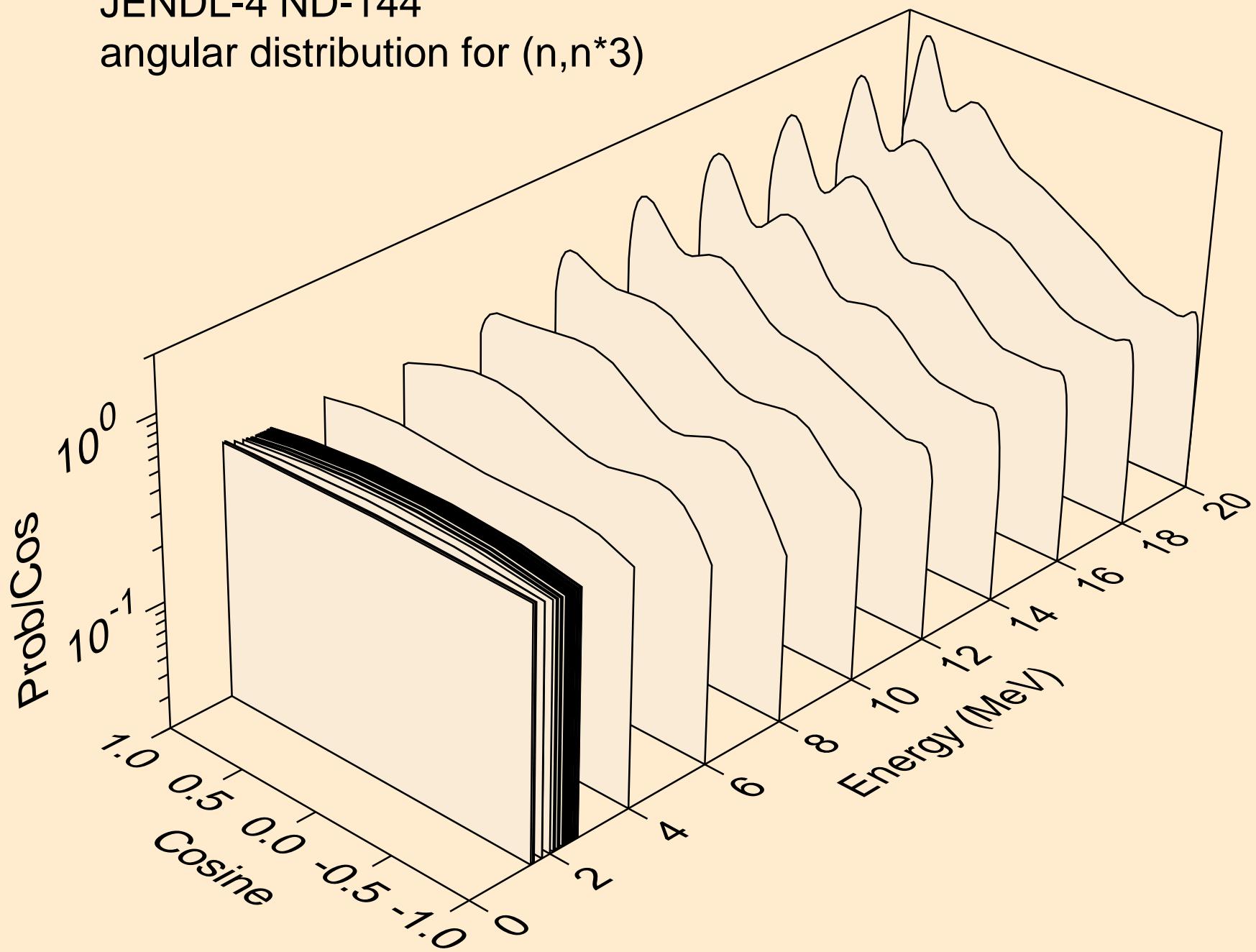
JENDL-4 ND-144  
angular distribution for (n,n\*1)



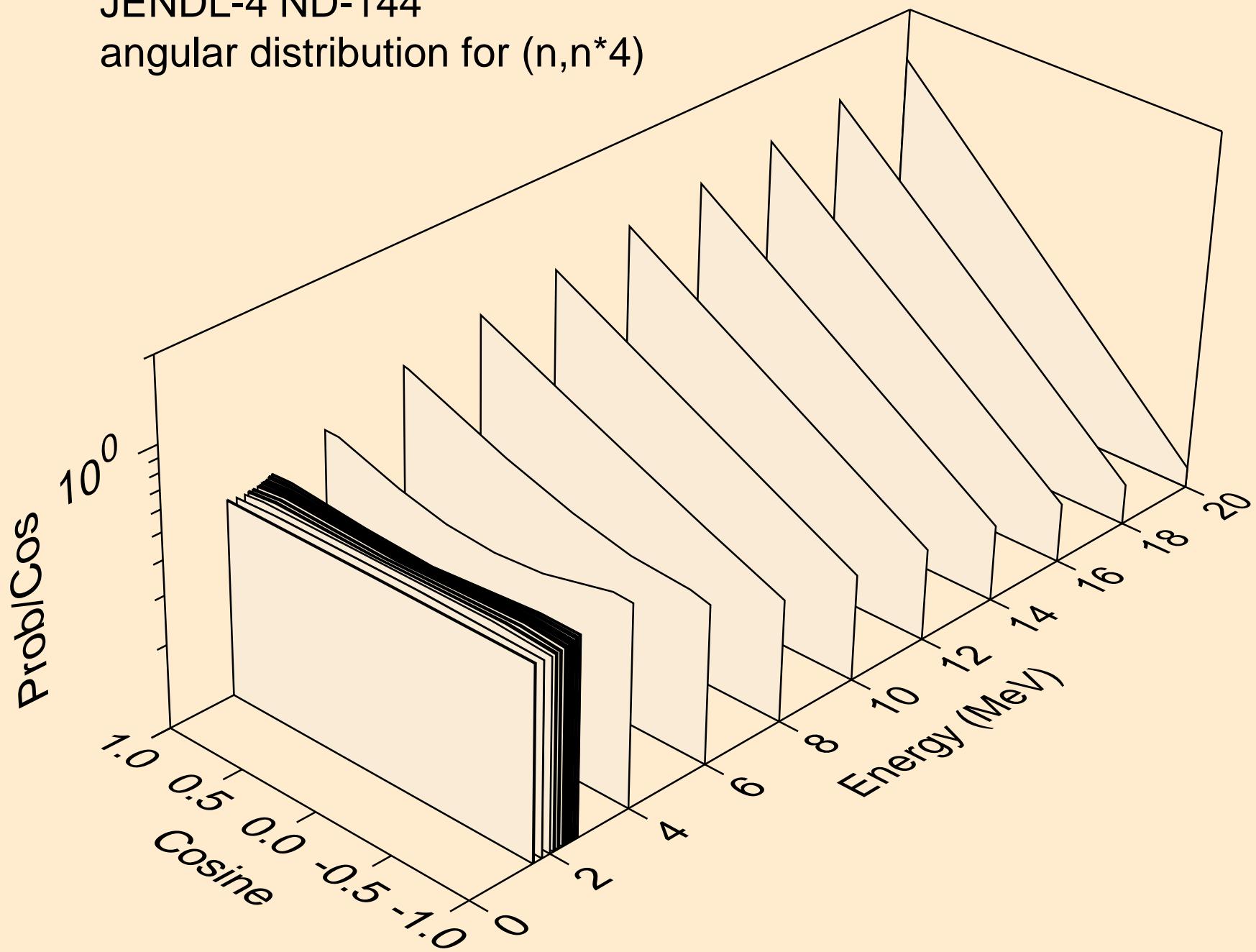
JENDL-4 ND-144  
angular distribution for  $(n,n^*)$



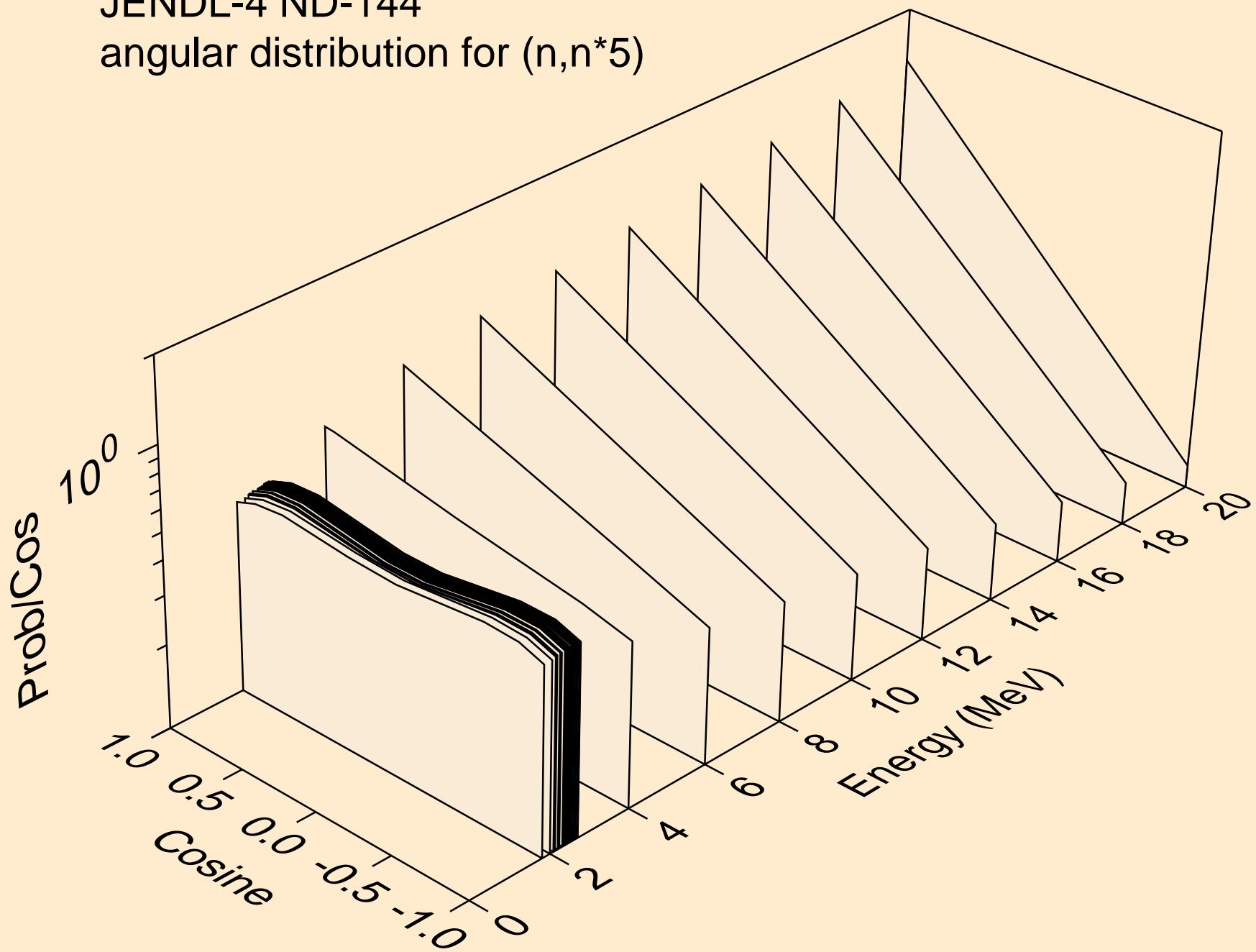
JENDL-4 ND-144  
angular distribution for  $(n,n^*)^3$



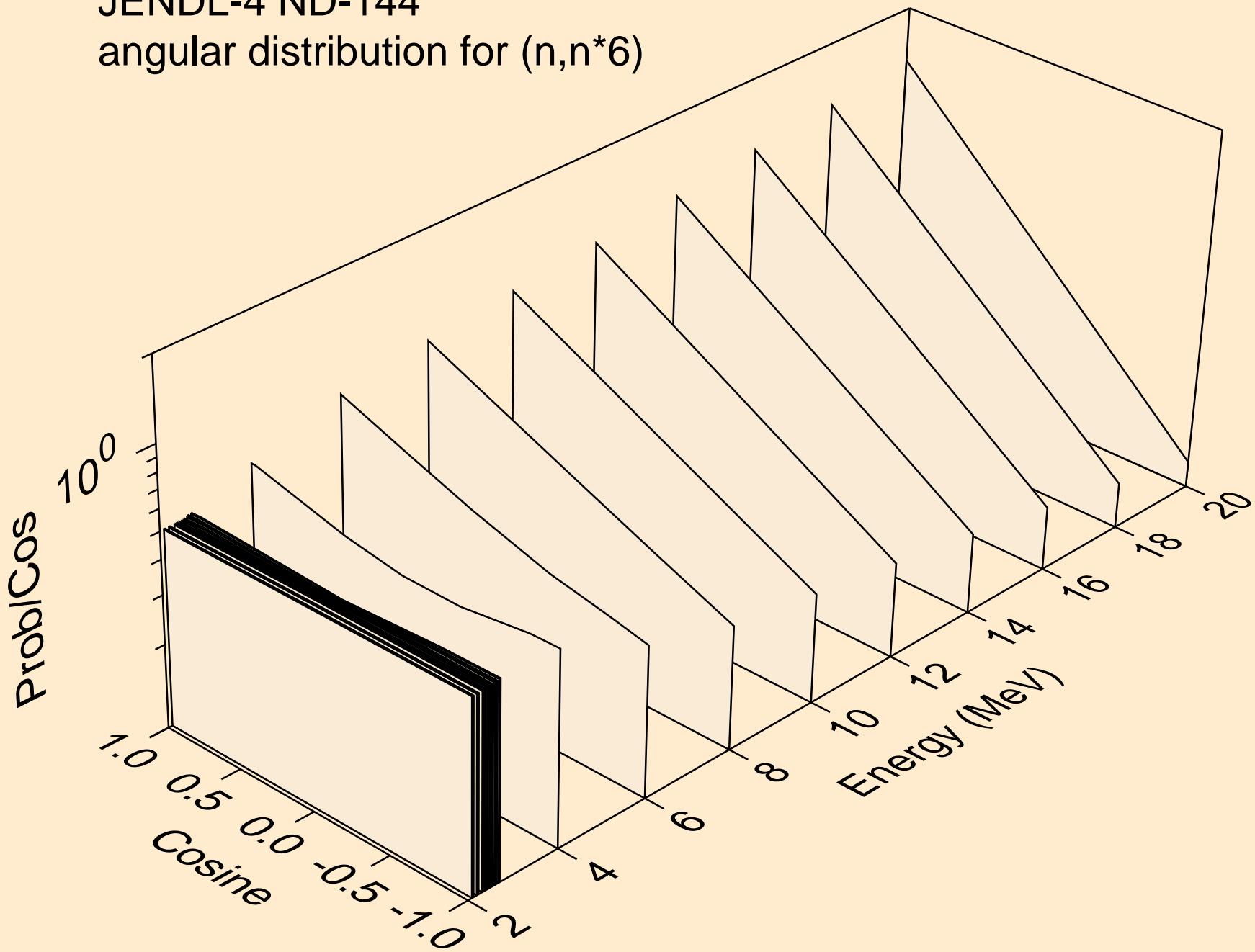
JENDL-4 ND-144  
angular distribution for  $(n,n^*4)$



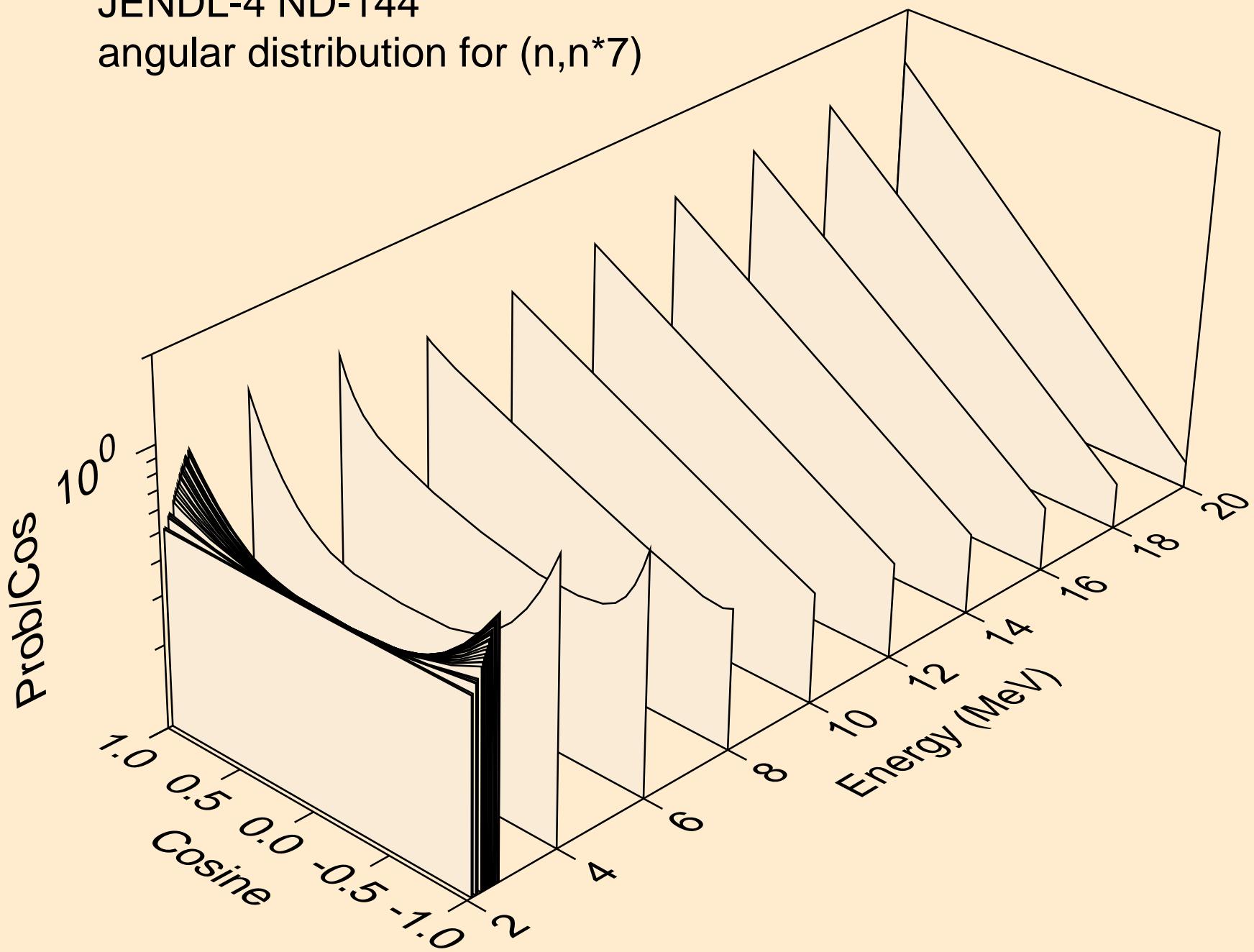
JENDL-4 ND-144  
angular distribution for  $(n,n^*)^5$



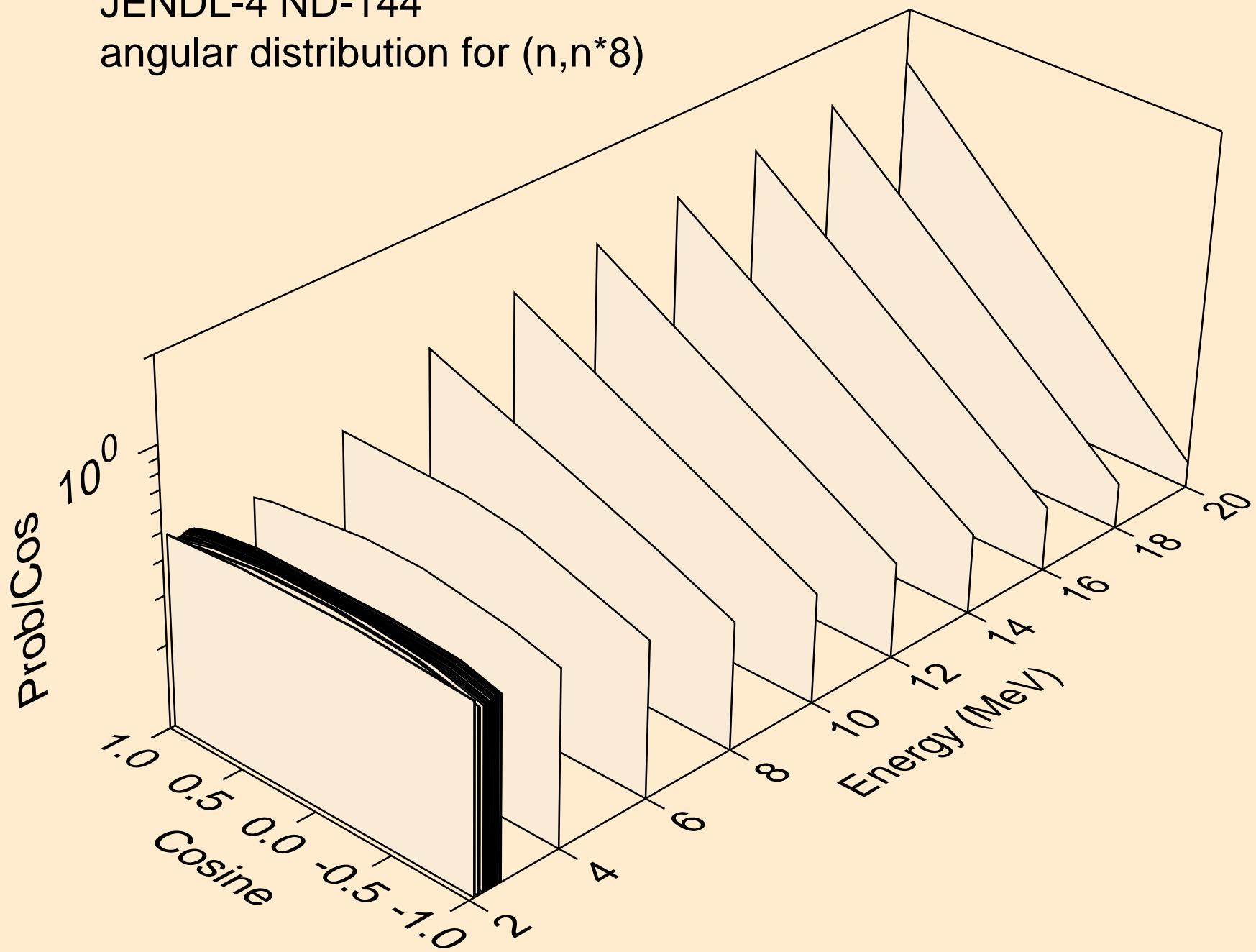
JENDL-4 ND-144  
angular distribution for  $(n,n^*6)$



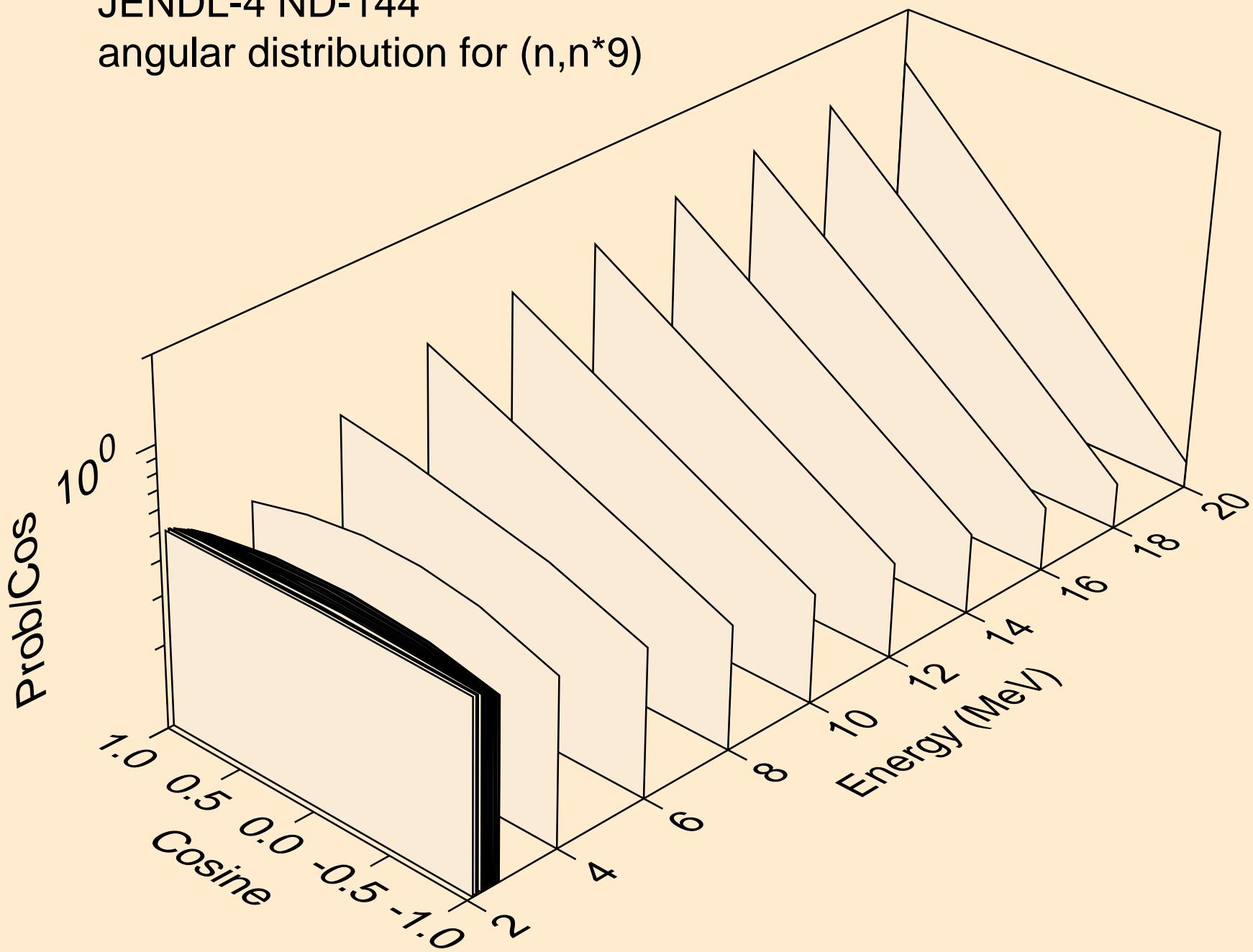
JENDL-4 ND-144  
angular distribution for  $(n,n^*7)$



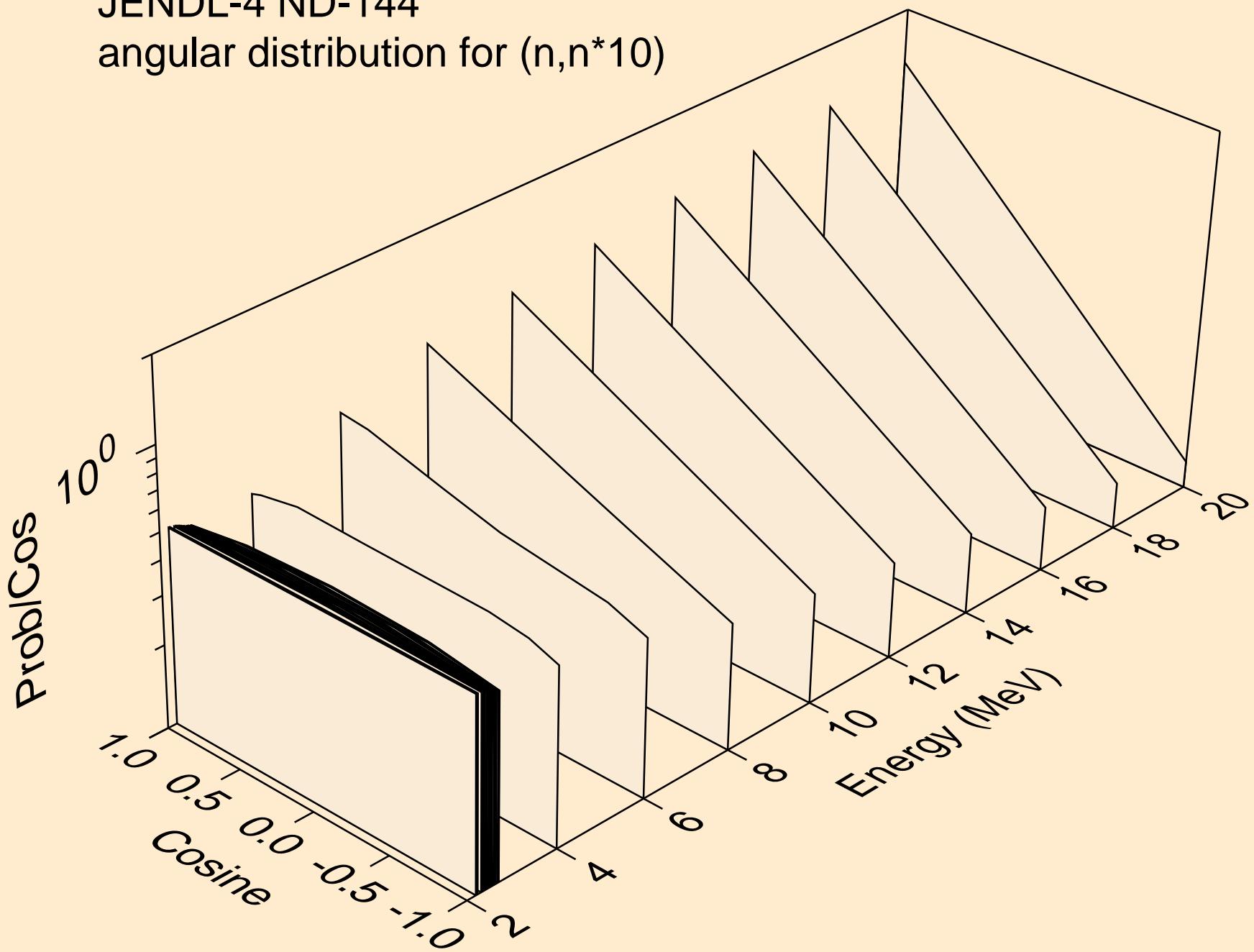
JENDL-4 ND-144  
angular distribution for  $(n,n^*8)$



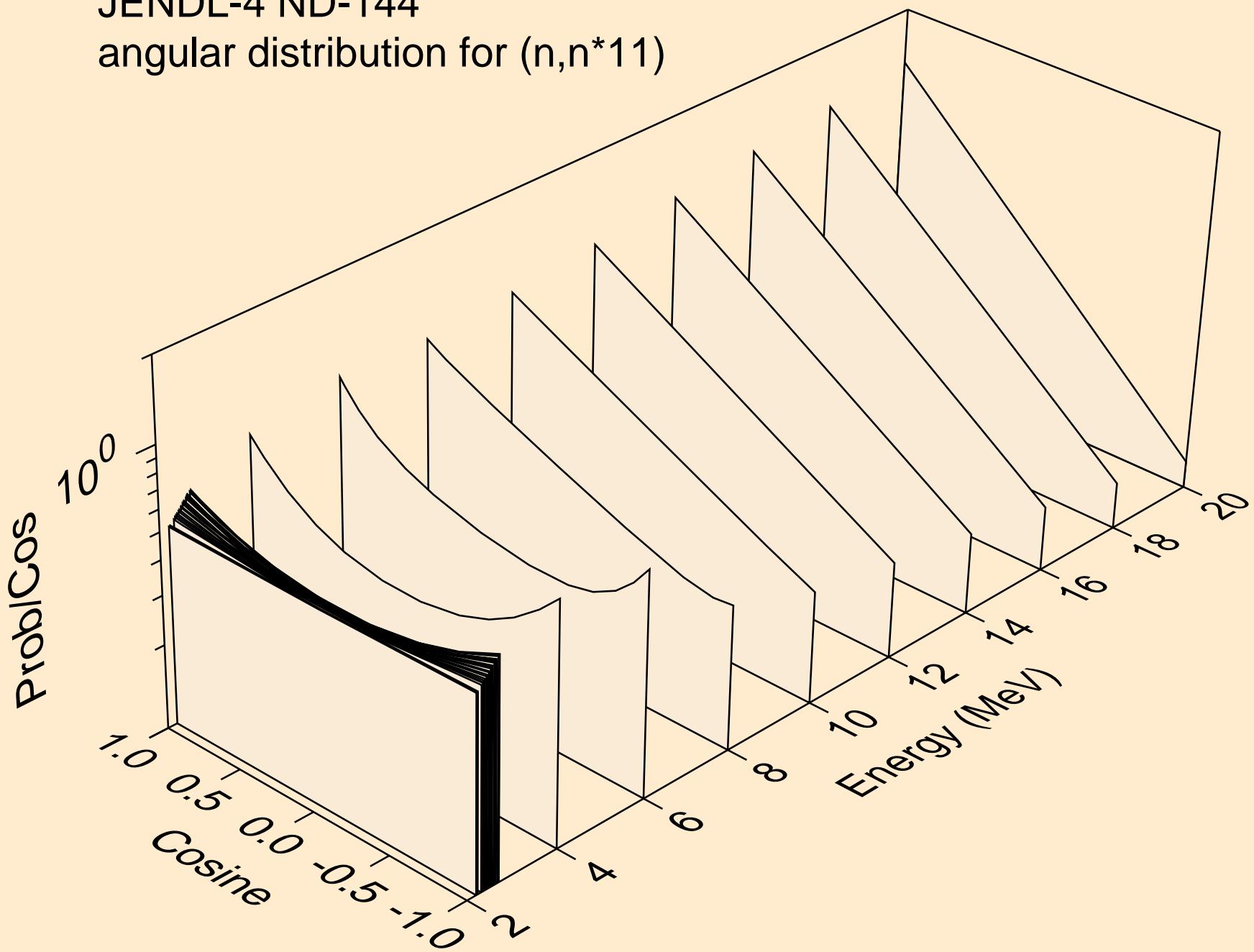
JENDL-4 ND-144  
angular distribution for  $(n,n^*9)$



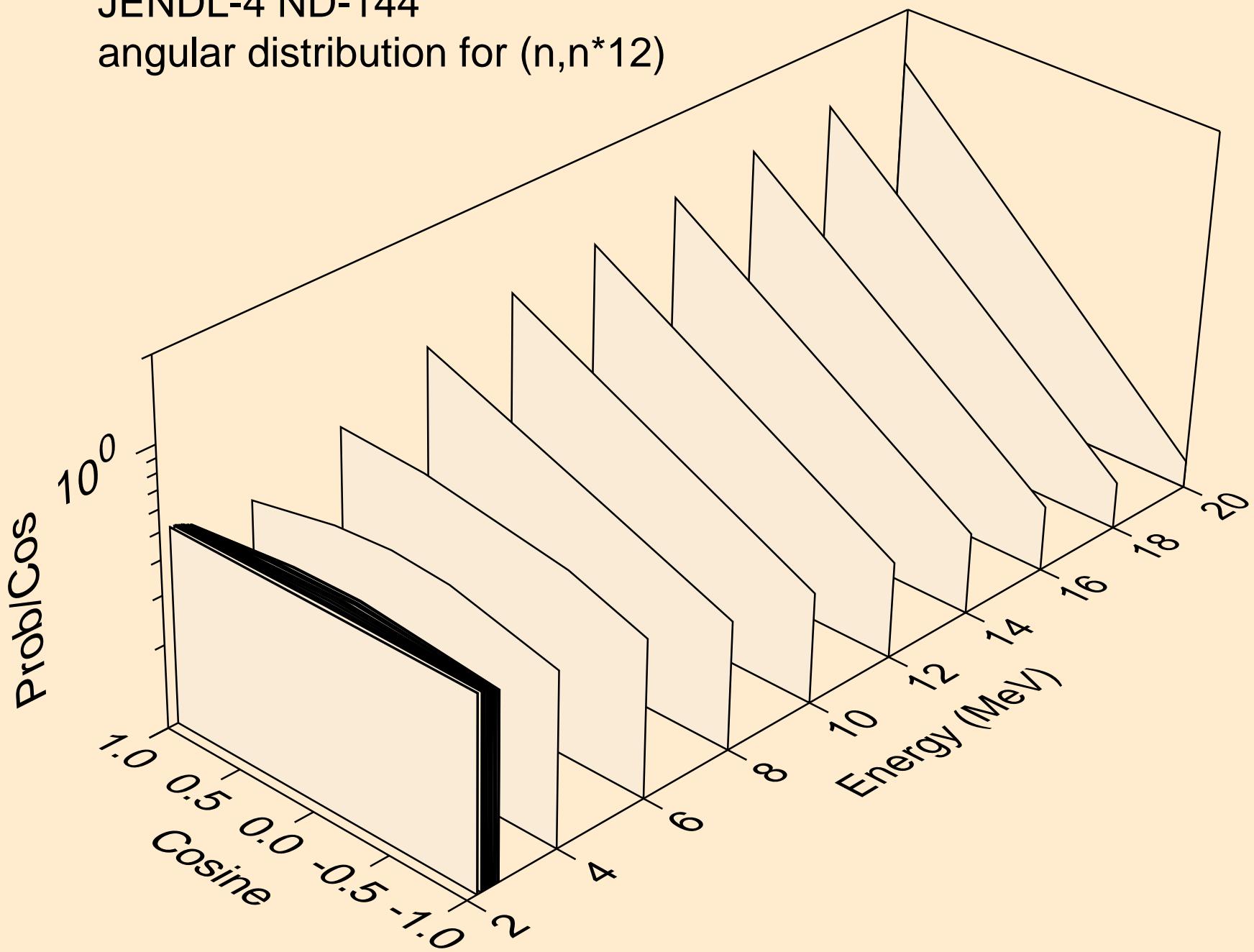
JENDL-4 ND-144  
angular distribution for (n,n\*10)



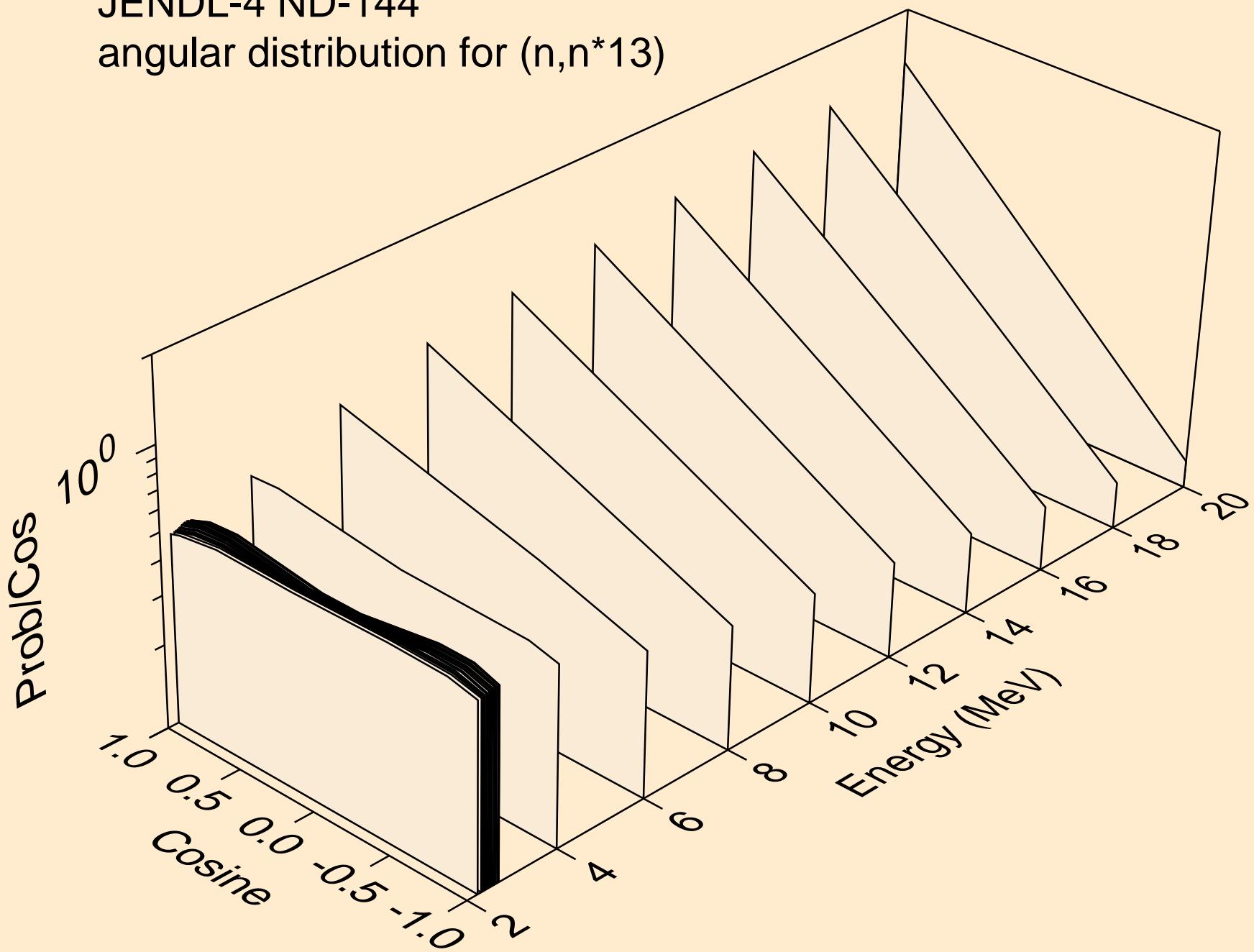
JENDL-4 ND-144  
angular distribution for (n,n\*11)



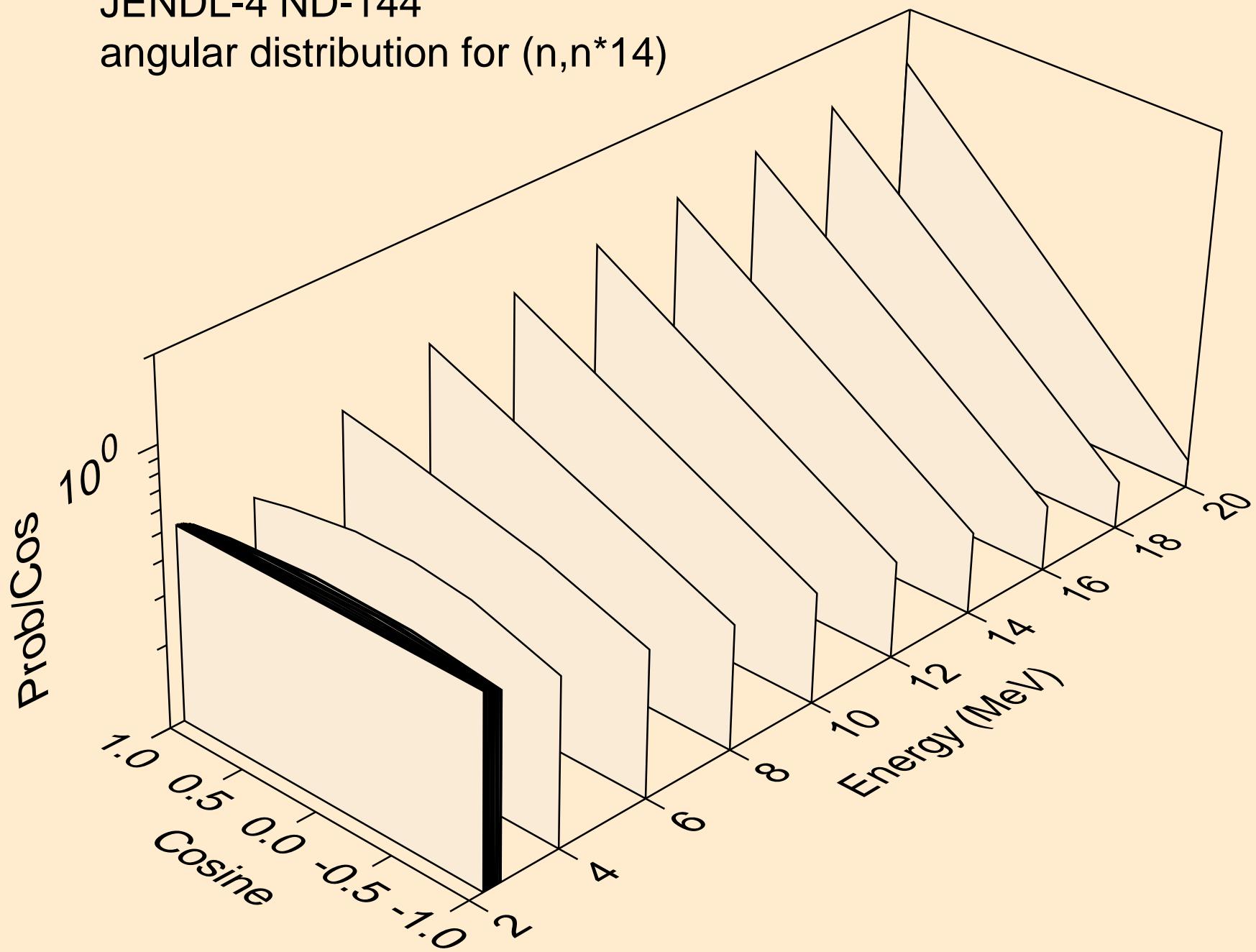
JENDL-4 ND-144  
angular distribution for  $(n,n^*12)$



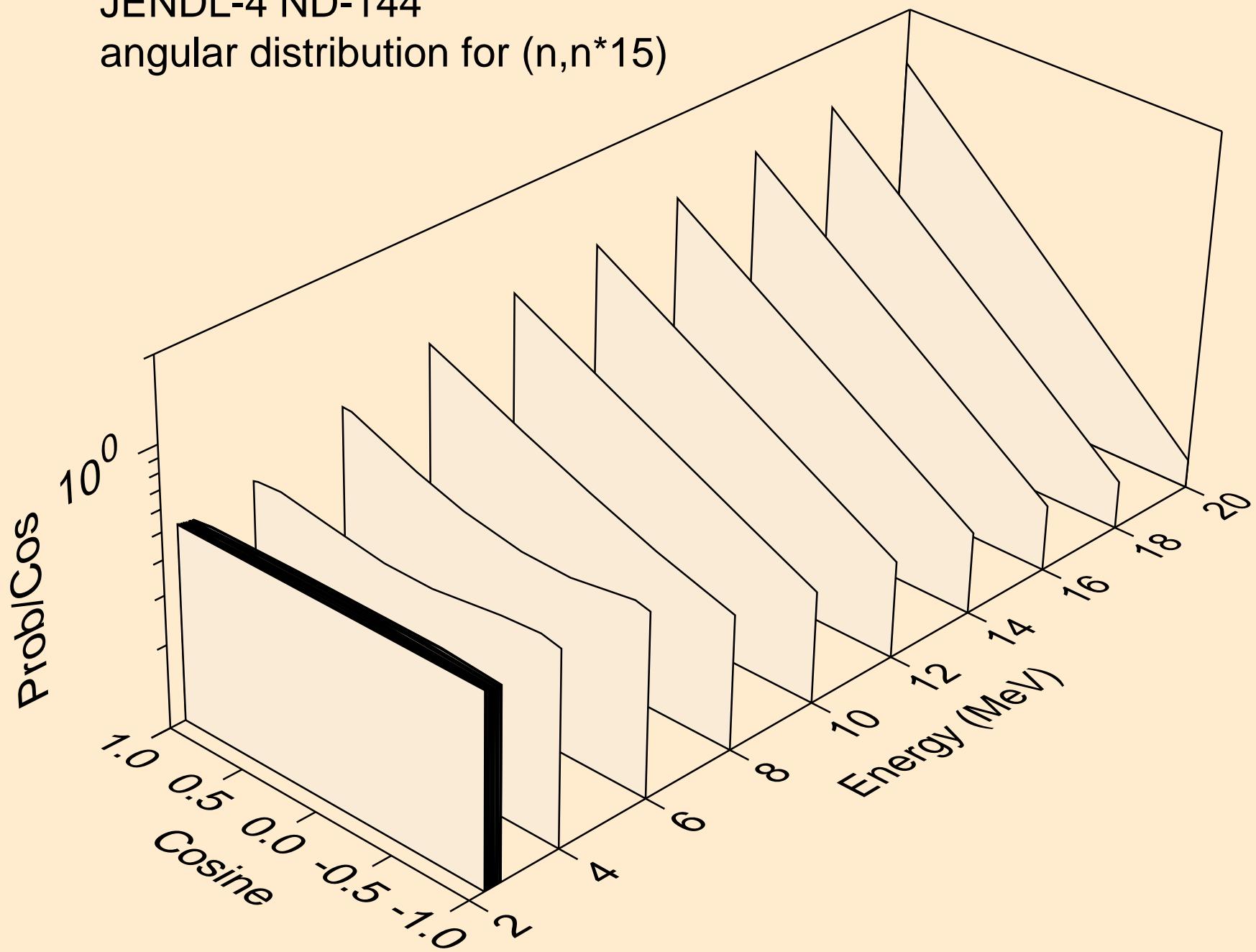
JENDL-4 ND-144  
angular distribution for  $(n,n^*13)$



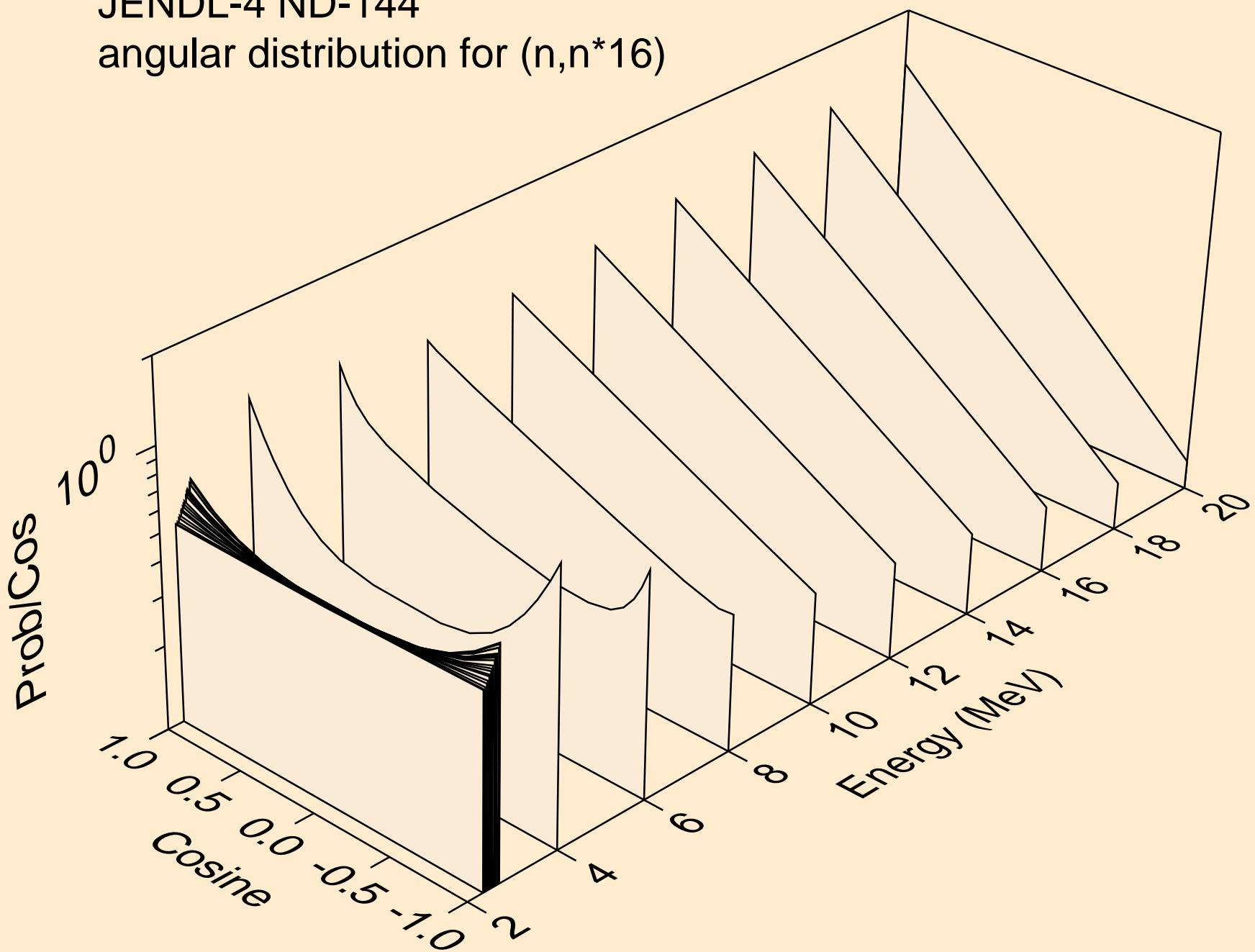
JENDL-4 ND-144  
angular distribution for ( $n, n^* 14$ )



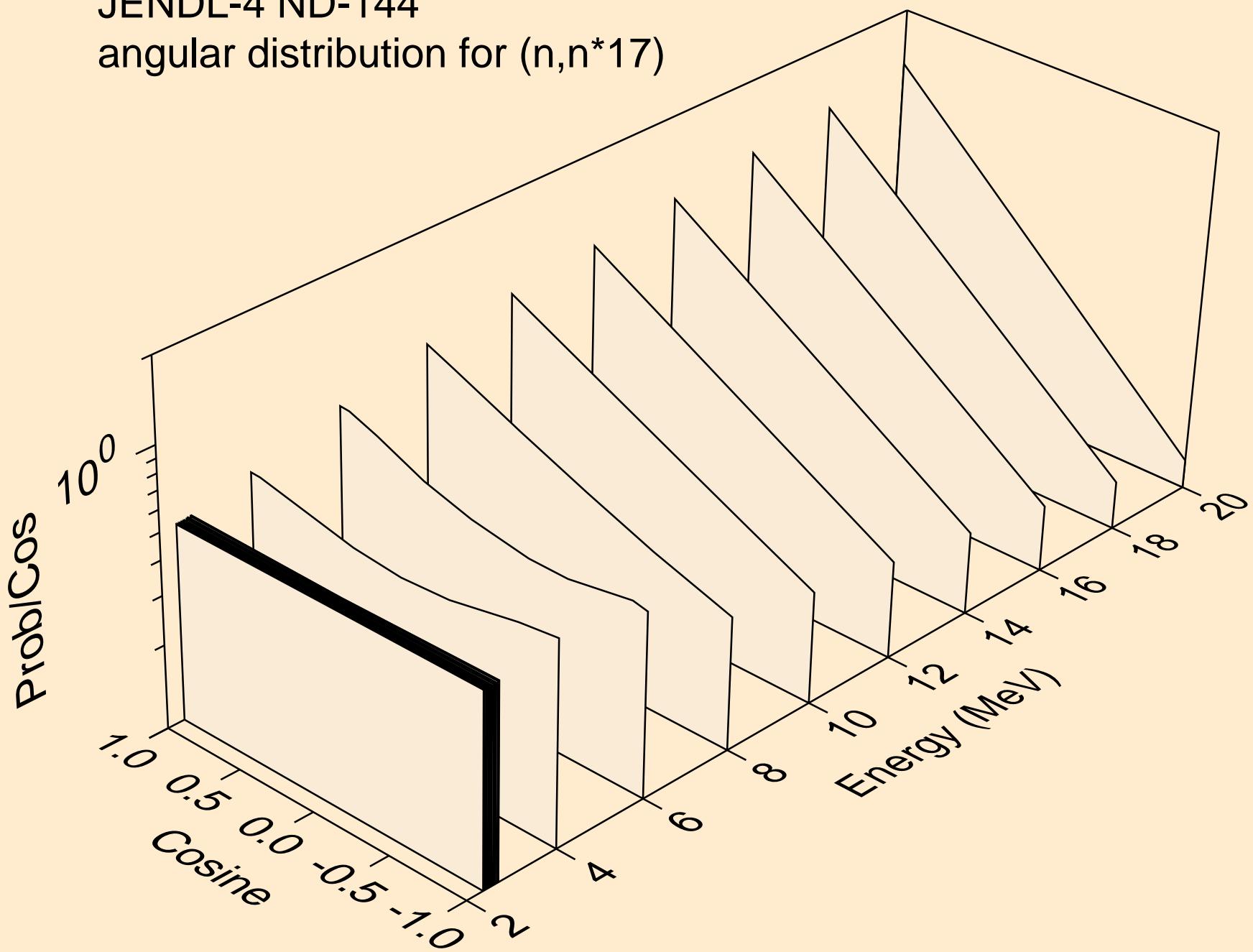
JENDL-4 ND-144  
angular distribution for  $(n,n^*15)$



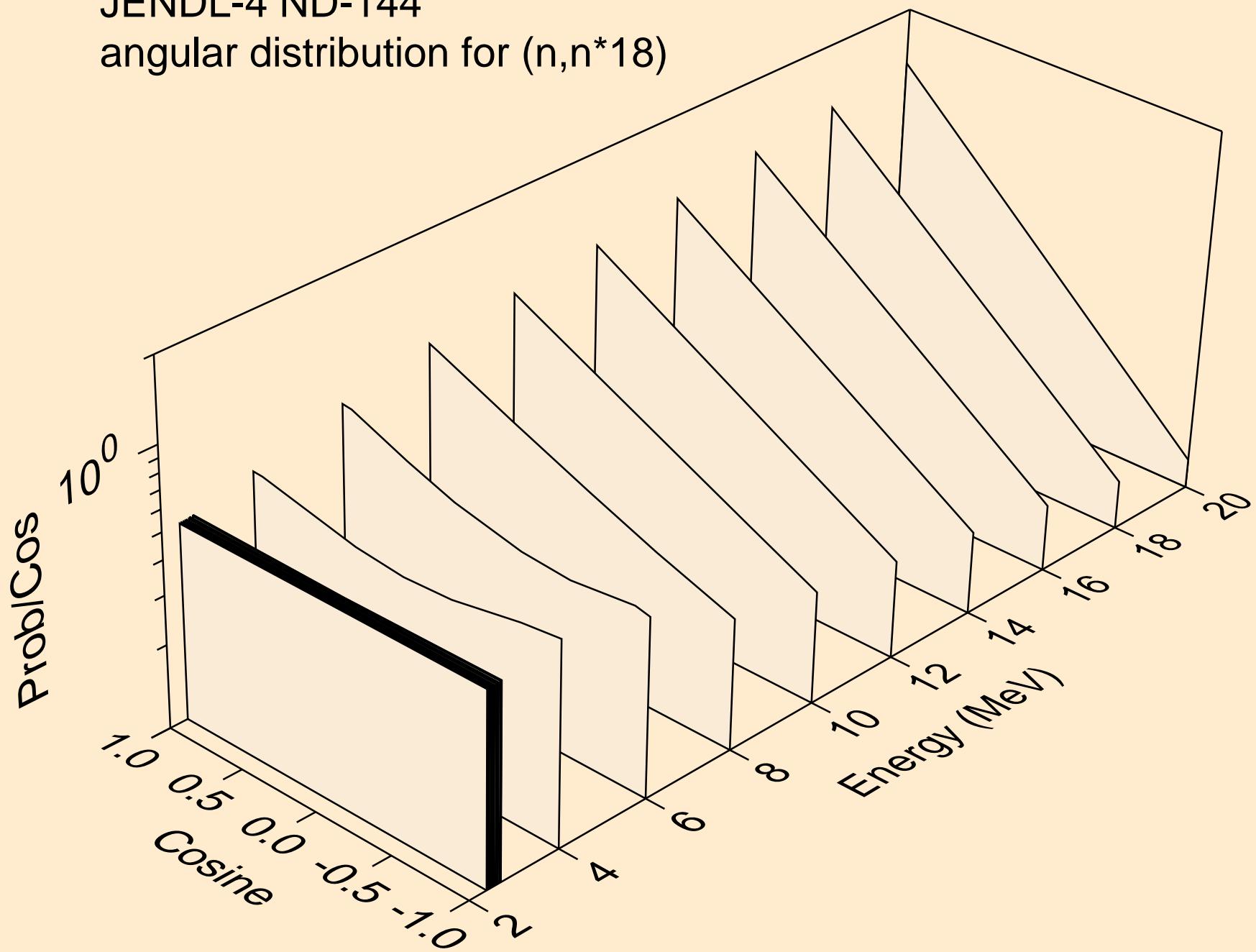
JENDL-4 ND-144  
angular distribution for  $(n,n^*16)$



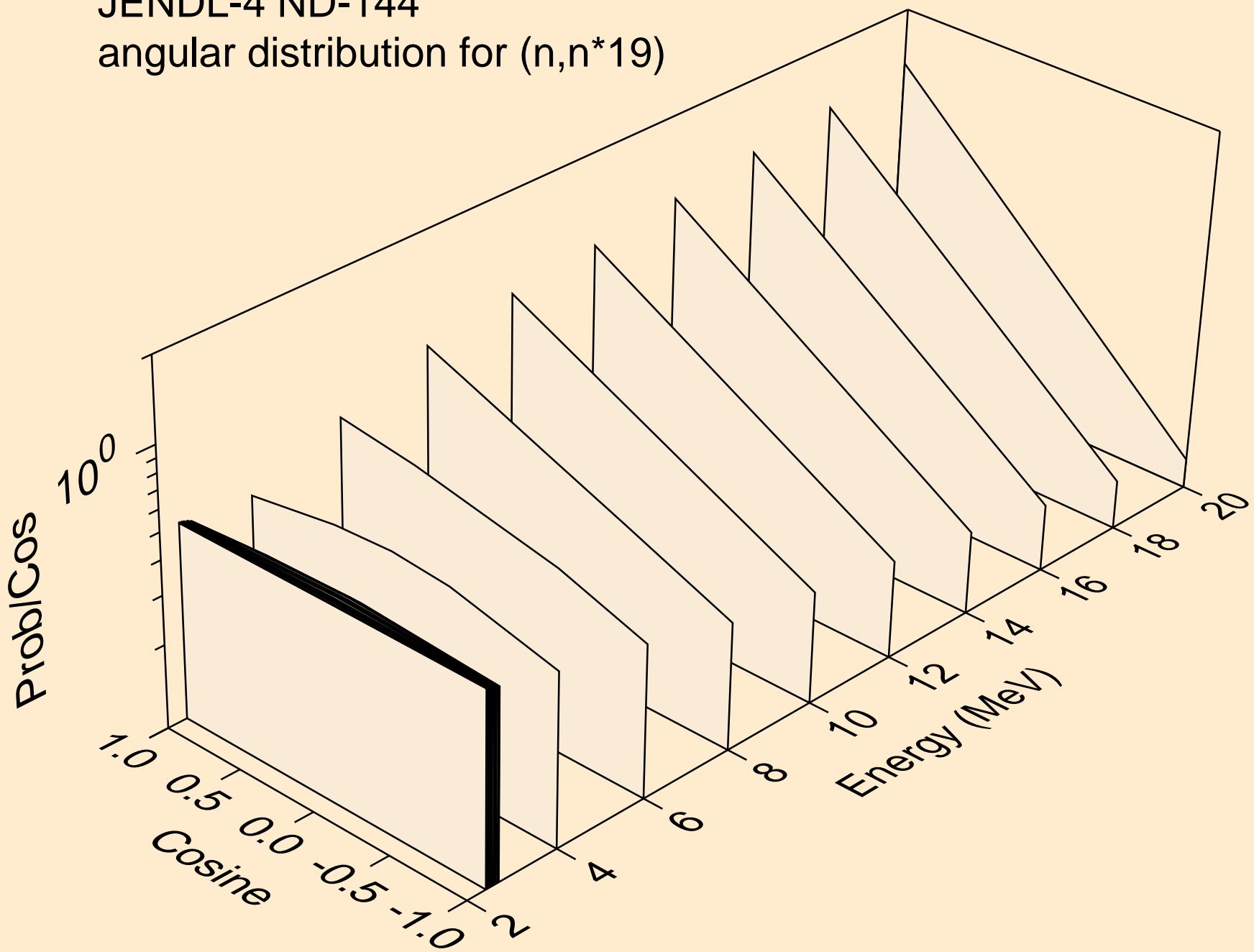
JENDL-4 ND-144  
angular distribution for ( $n, n^* 17$ )



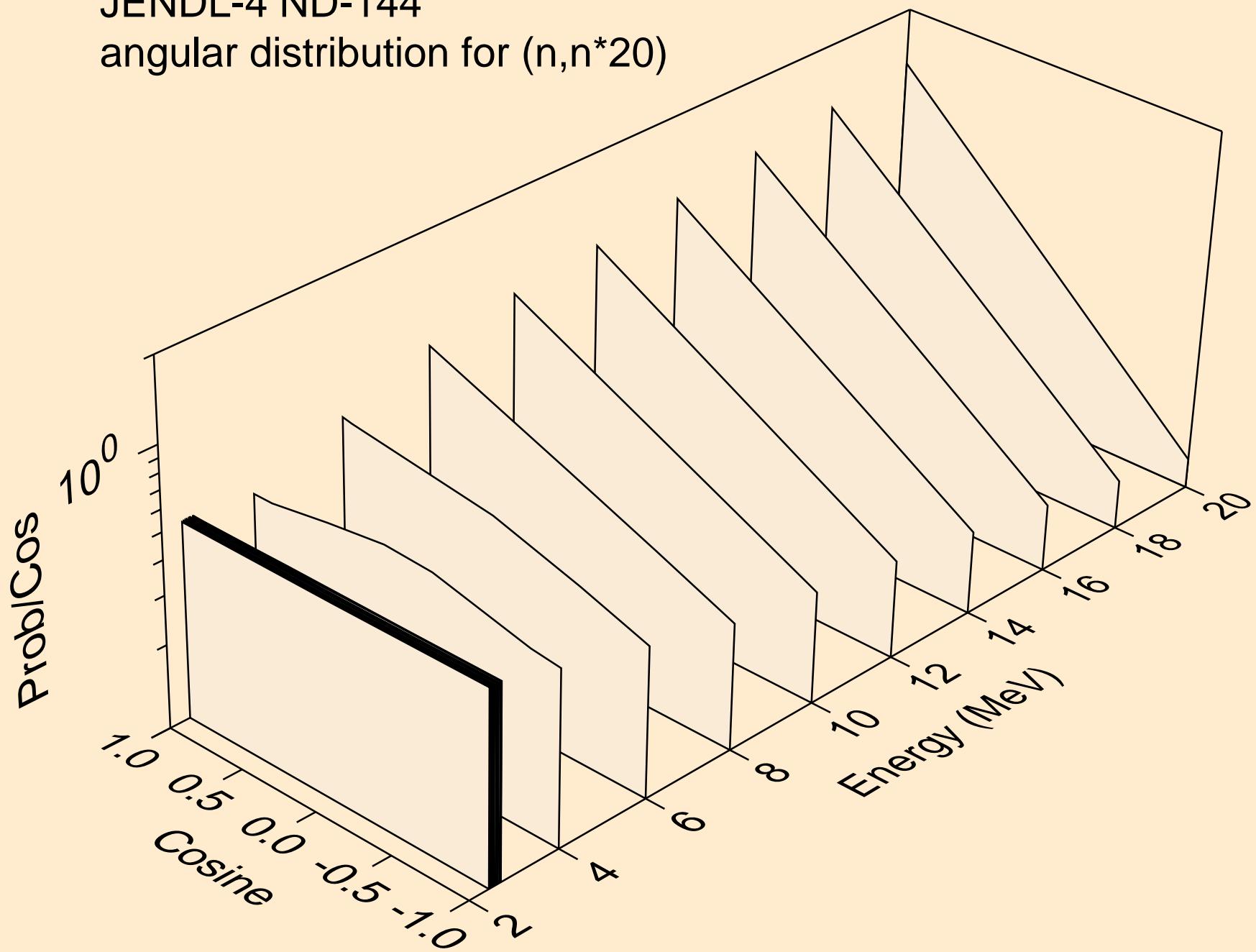
JENDL-4 ND-144  
angular distribution for  $(n,n^*18)$



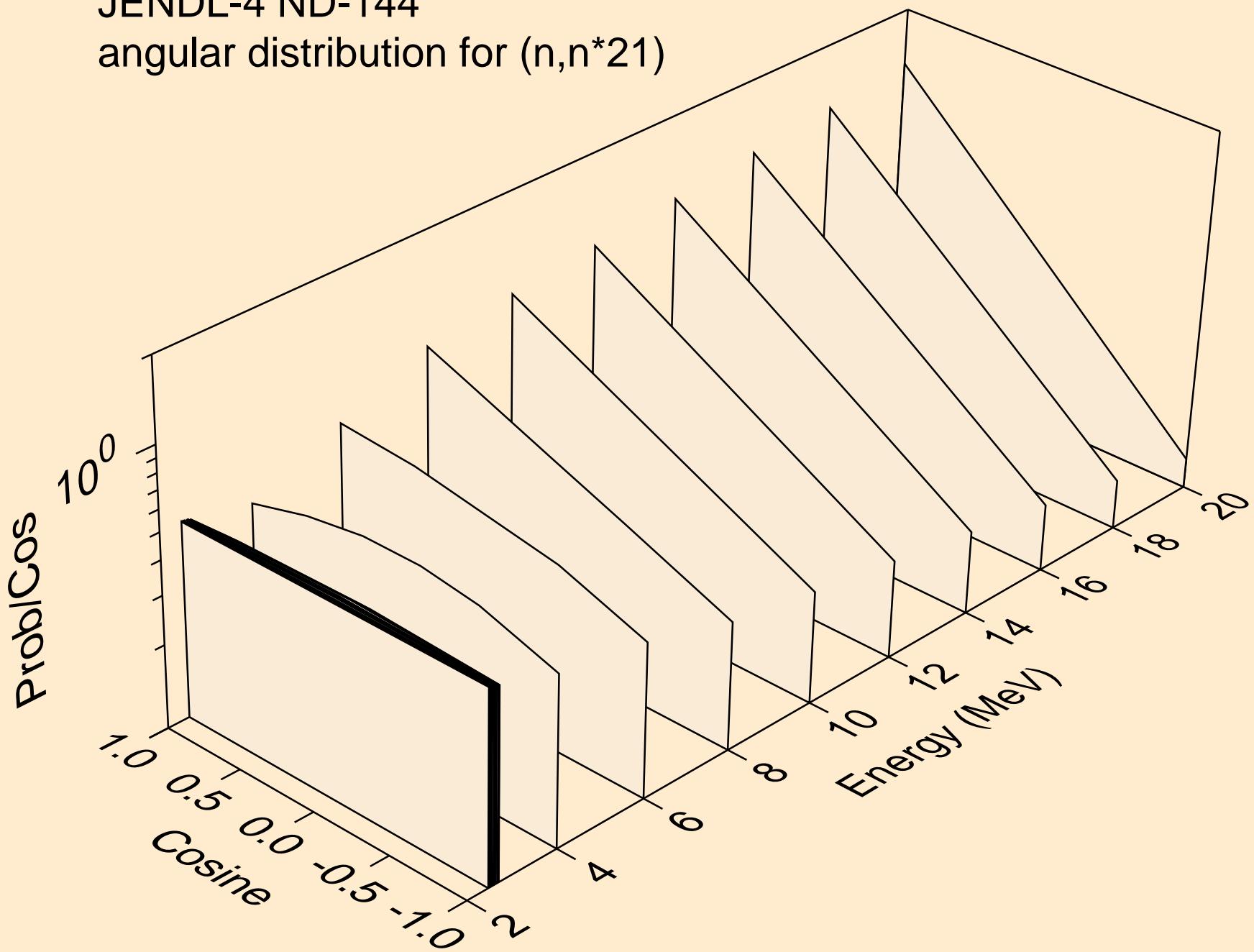
JENDL-4 ND-144  
angular distribution for  $(n,n^*19)$



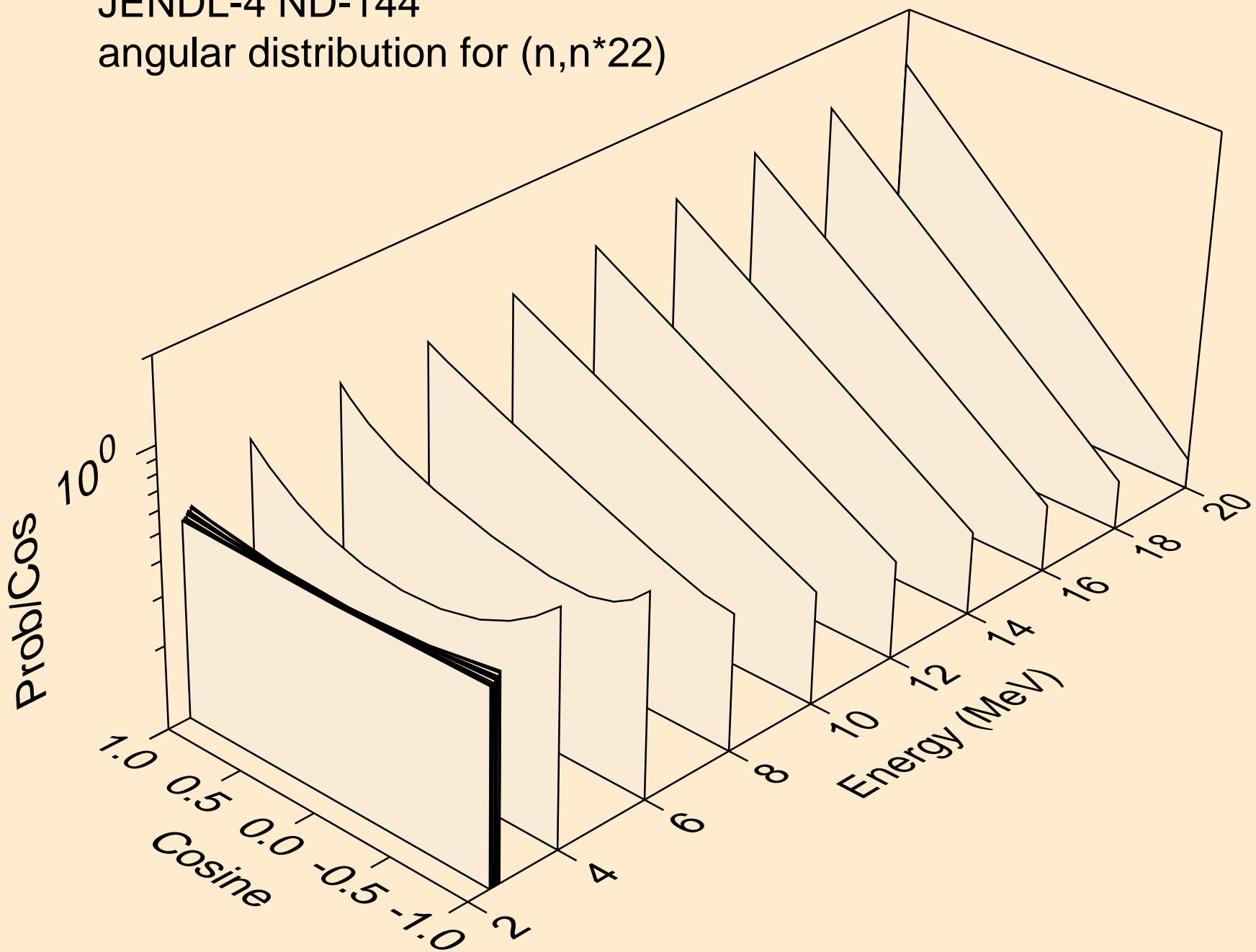
JENDL-4 ND-144  
angular distribution for  $(n,n^*20)$



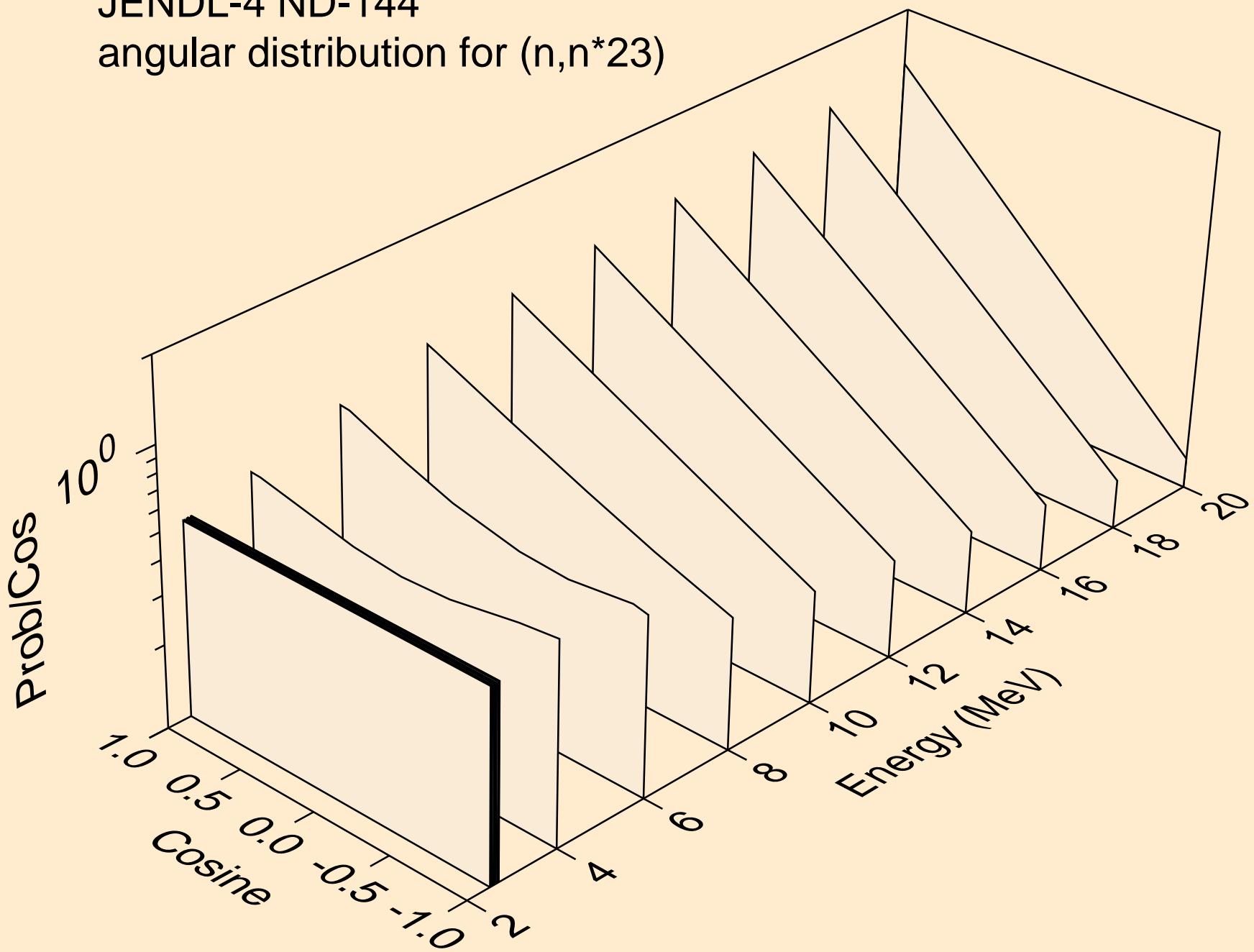
JENDL-4 ND-144  
angular distribution for ( $n,n^*$ )21



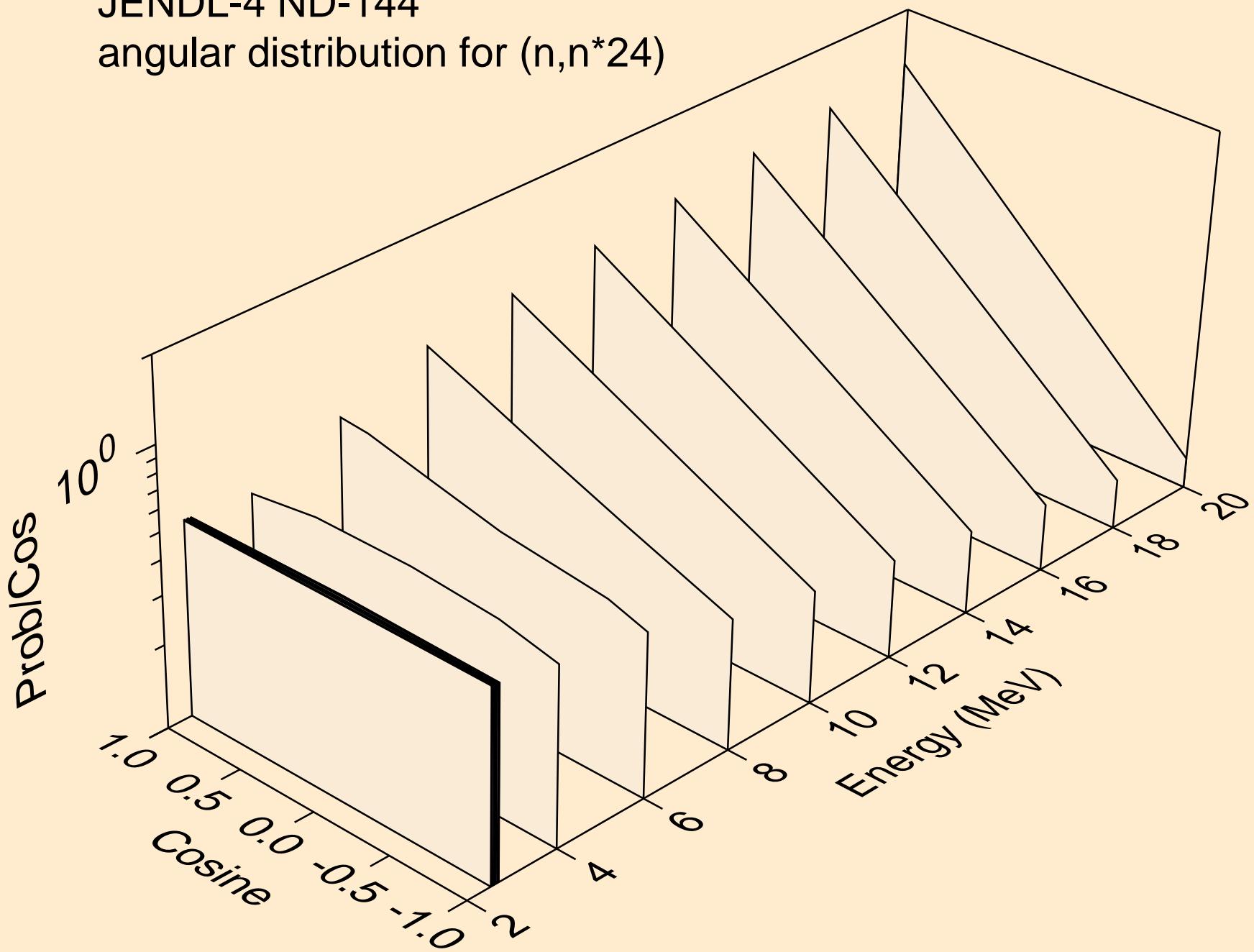
JENDL-4 ND-144  
angular distribution for  $(n,n^*22)$



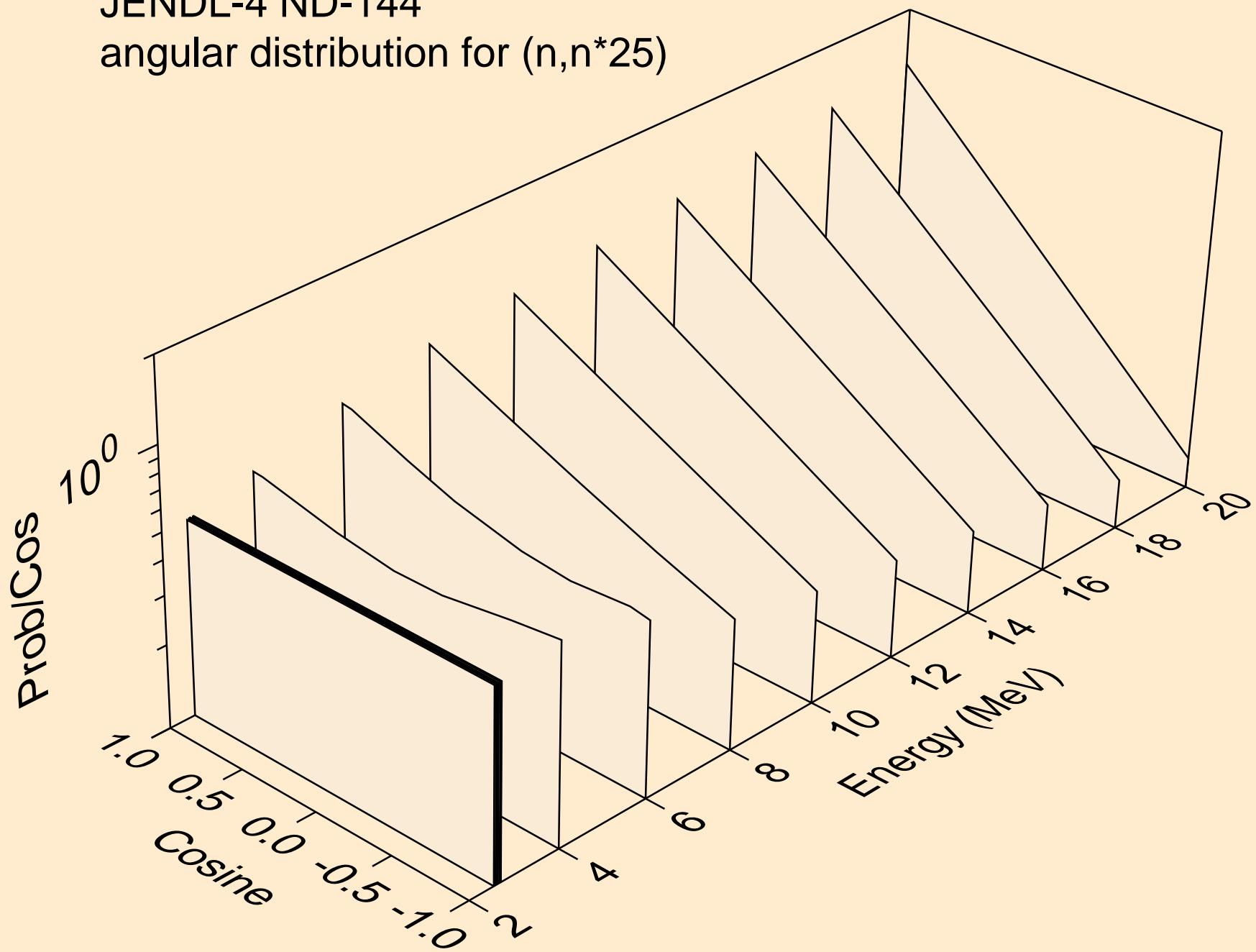
JENDL-4 ND-144  
angular distribution for  $(n,n^*23)$



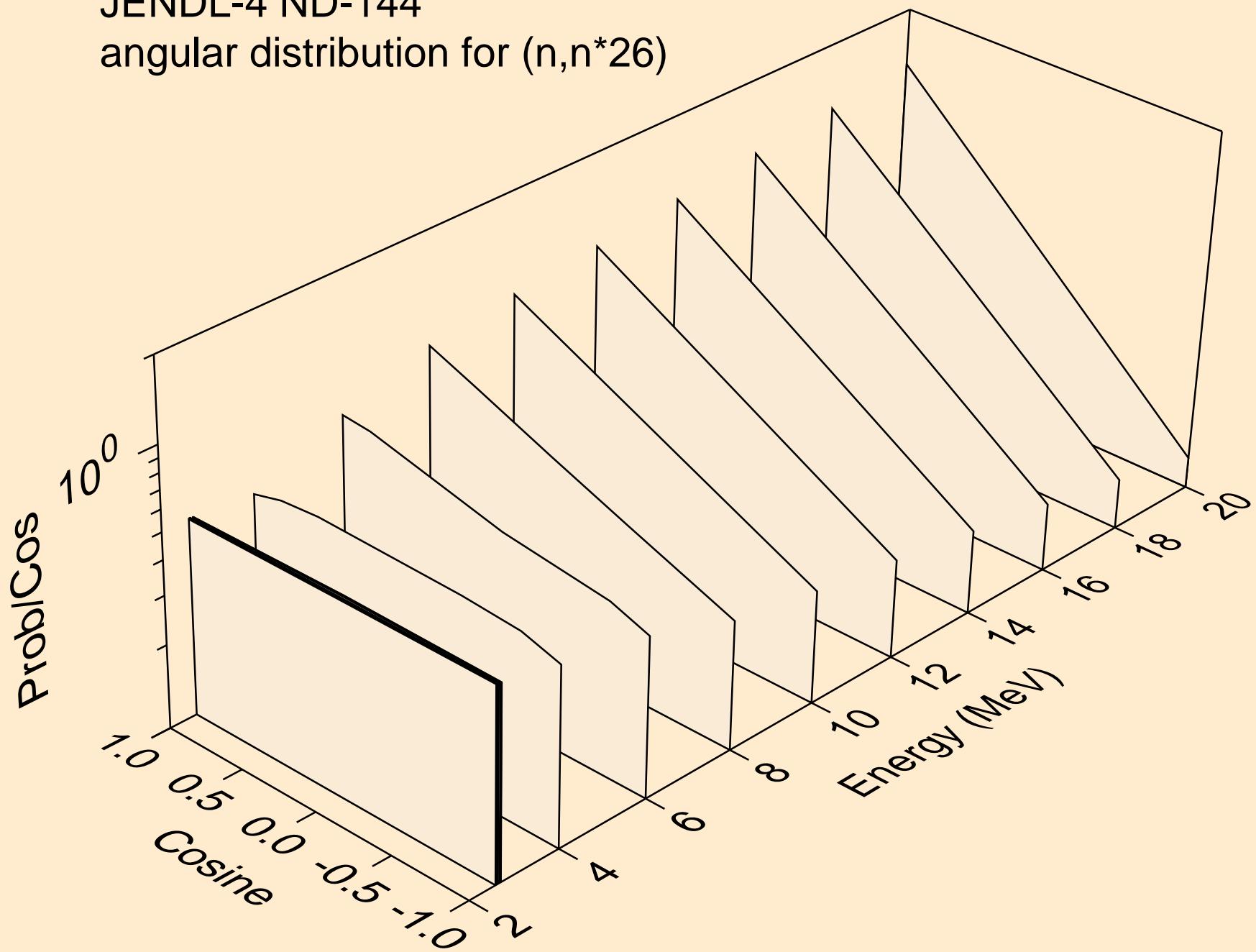
JENDL-4 ND-144  
angular distribution for ( $n, n^* 24$ )



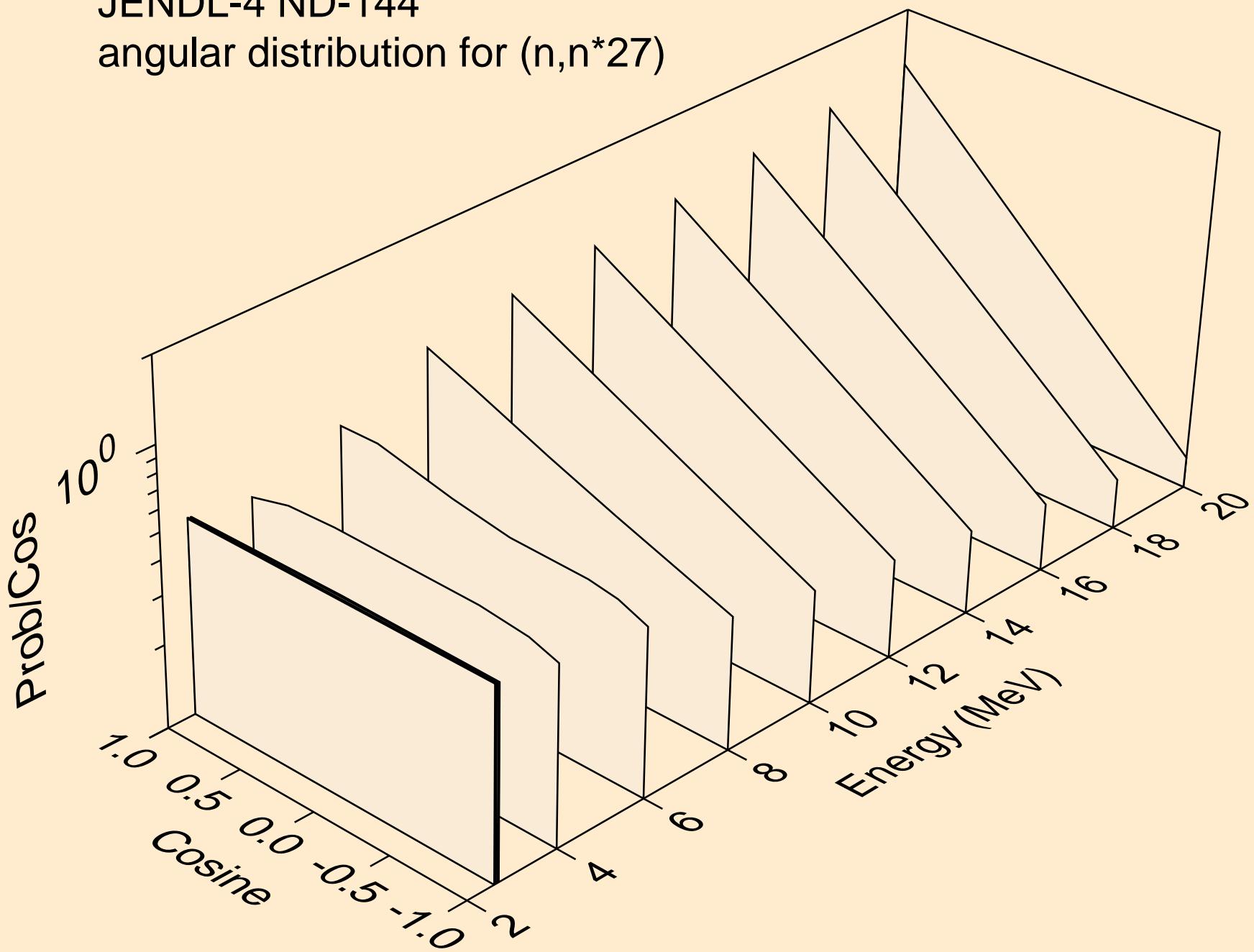
JENDL-4 ND-144  
angular distribution for  $(n,n^*25)$



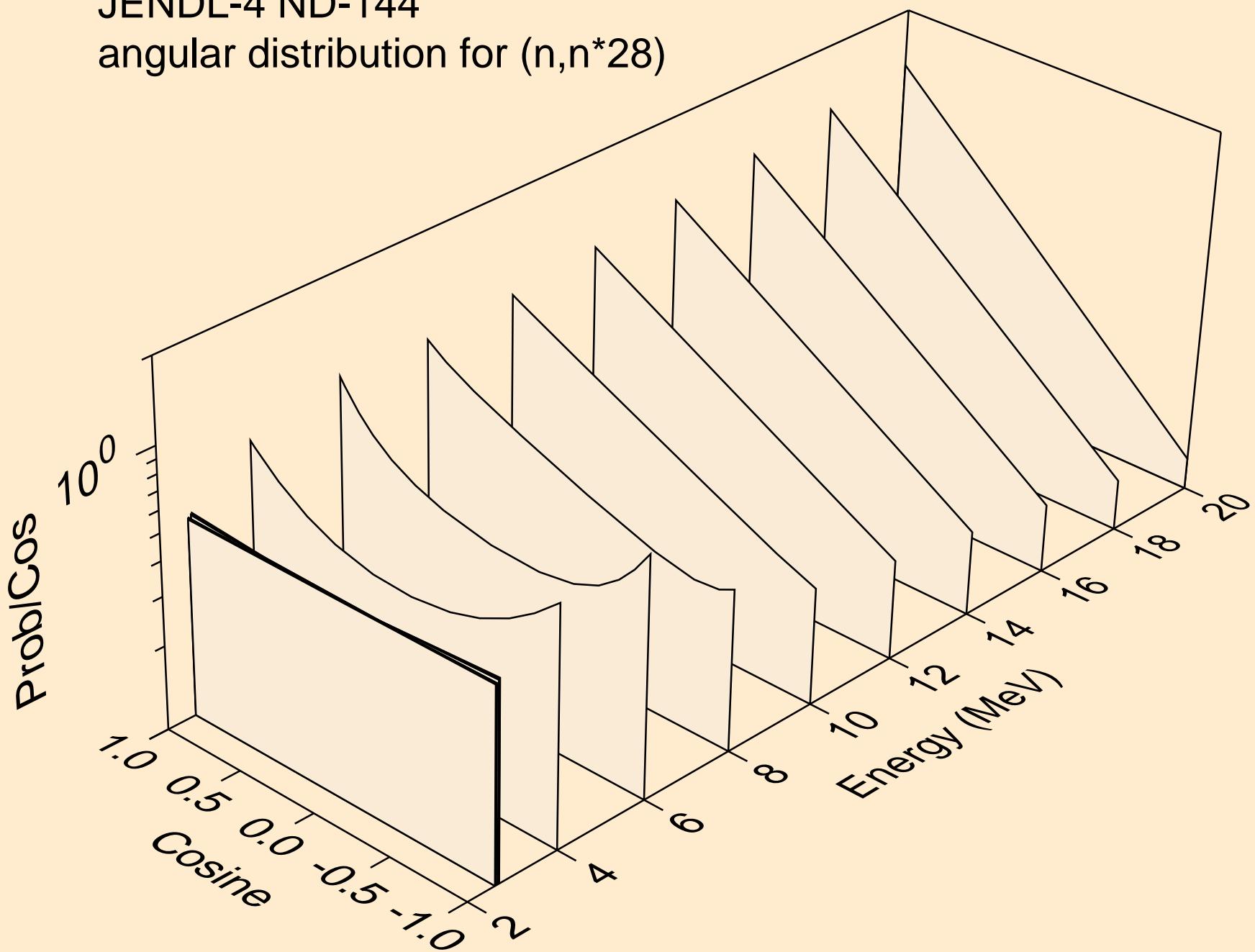
JENDL-4 ND-144  
angular distribution for  $(n,n^*26)$



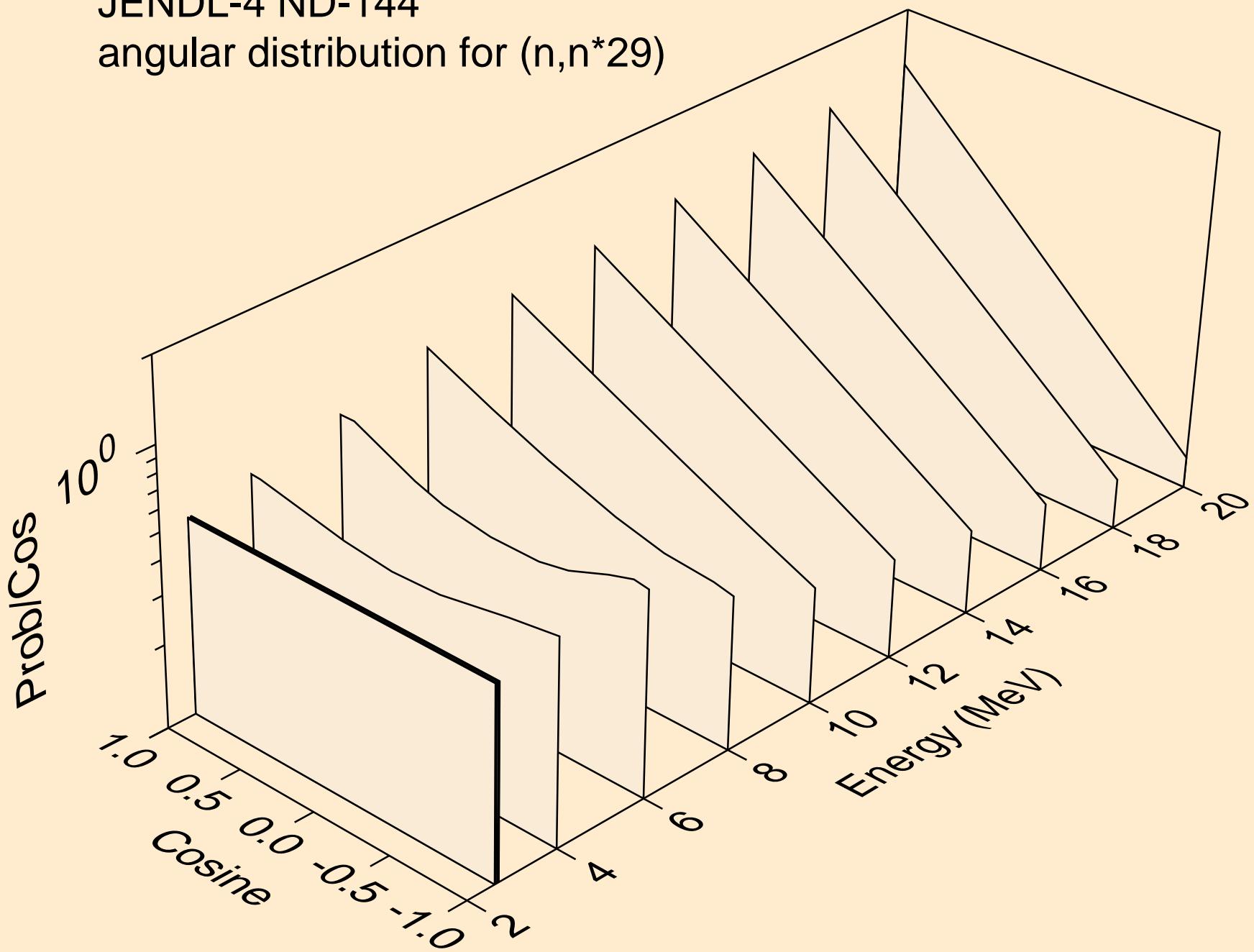
JENDL-4 ND-144  
angular distribution for  $(n,n^*27)$



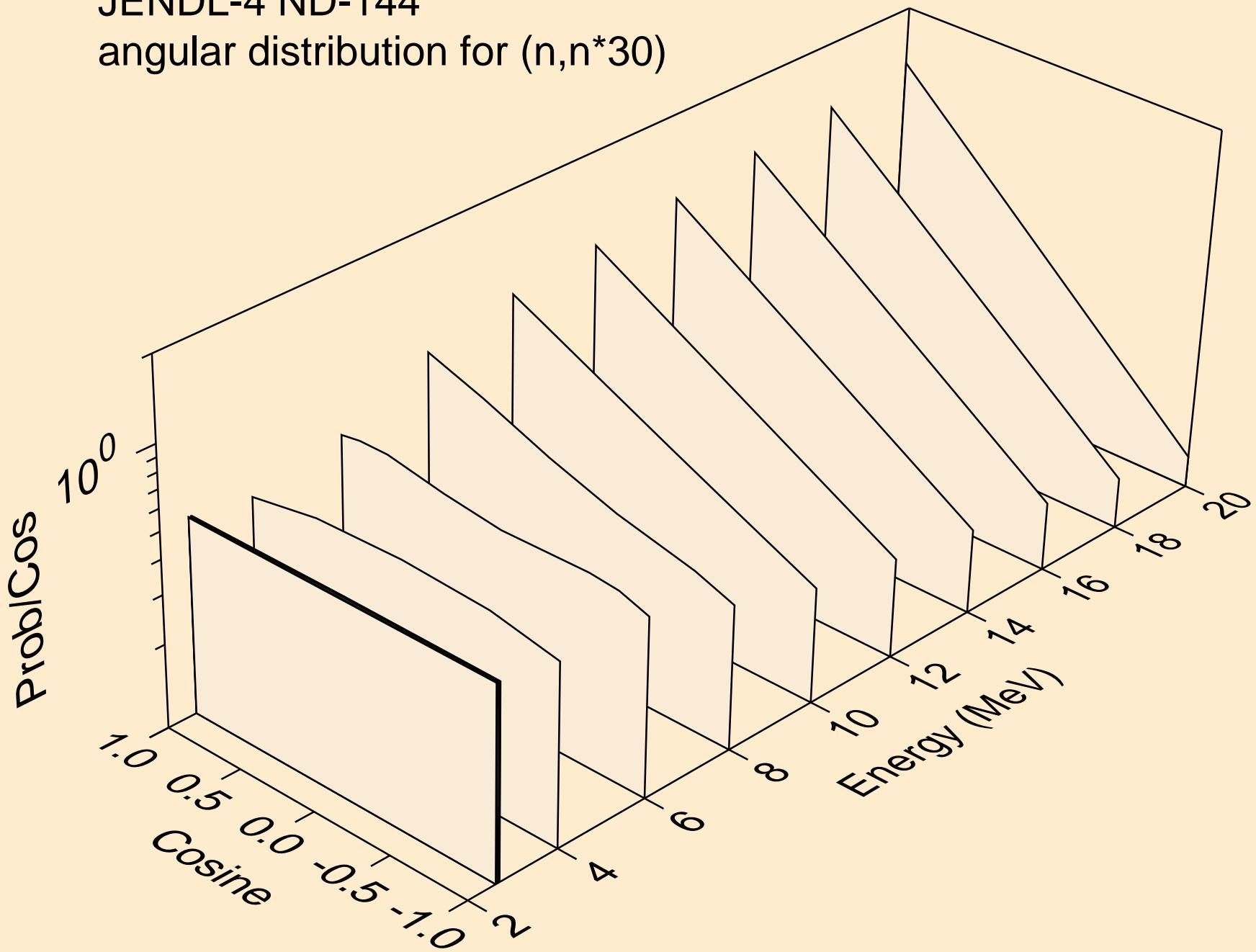
JENDL-4 ND-144  
angular distribution for  $(n,n^*28)$



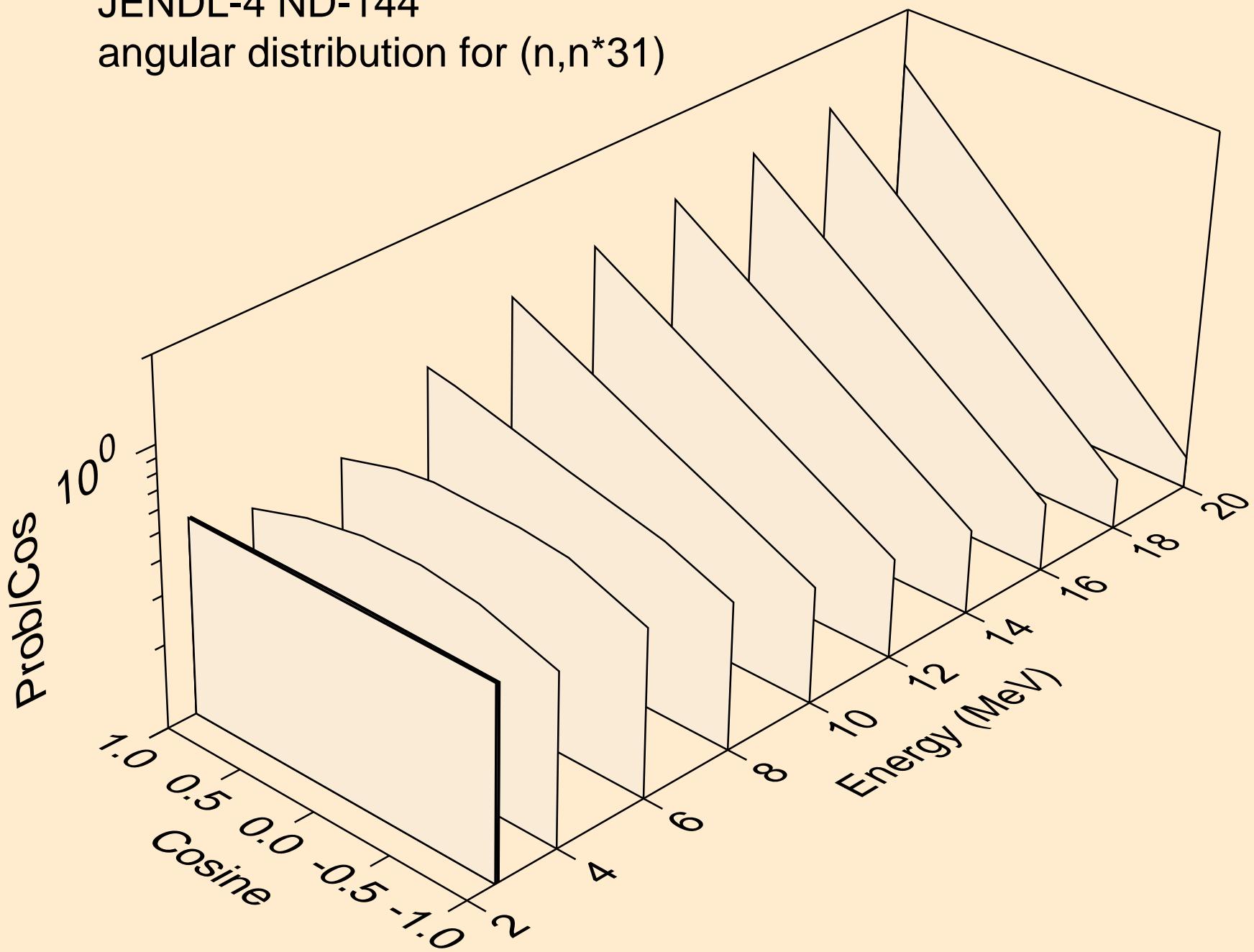
JENDL-4 ND-144  
angular distribution for  $(n,n^*29)$



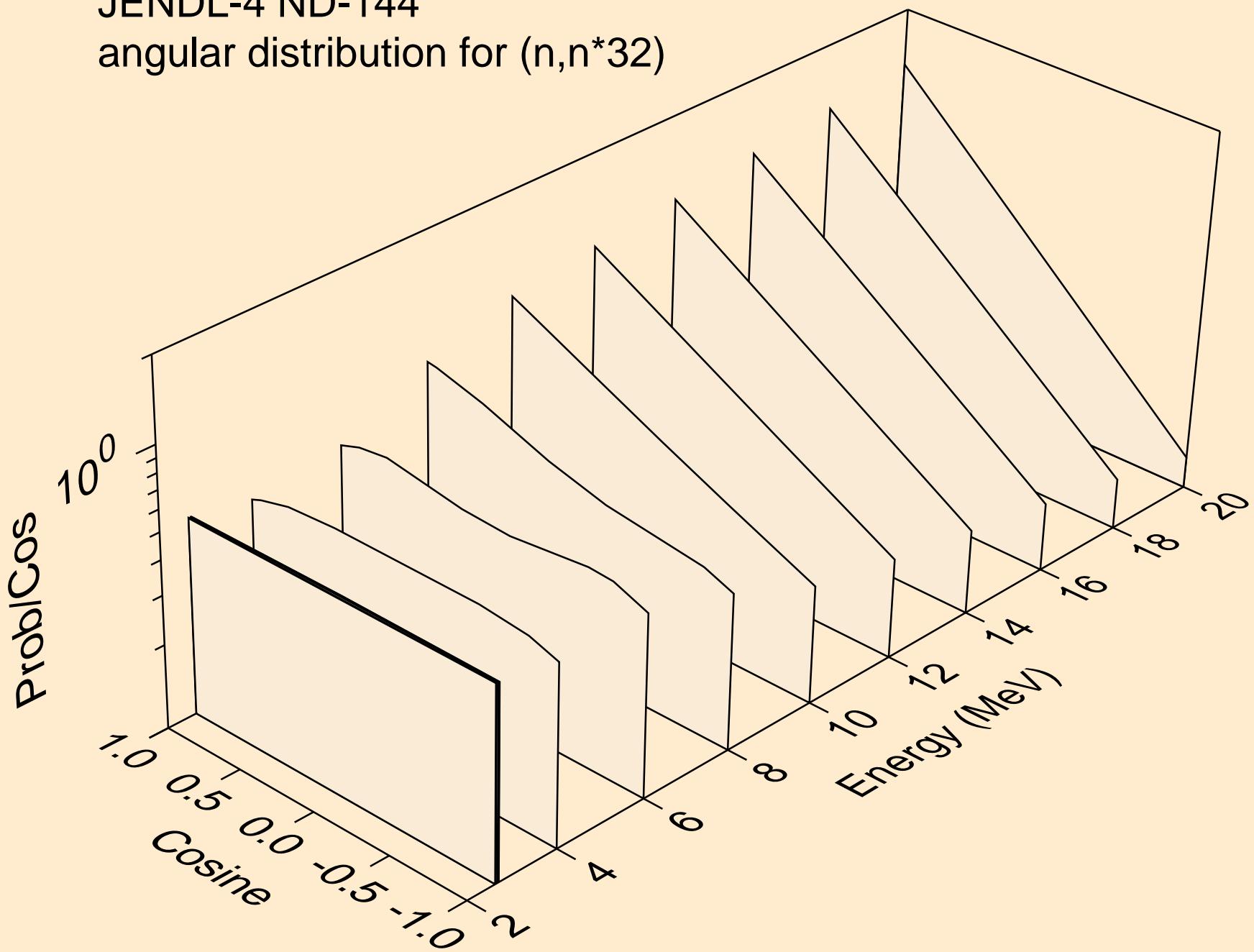
JENDL-4 ND-144  
angular distribution for  $(n,n^*30)$



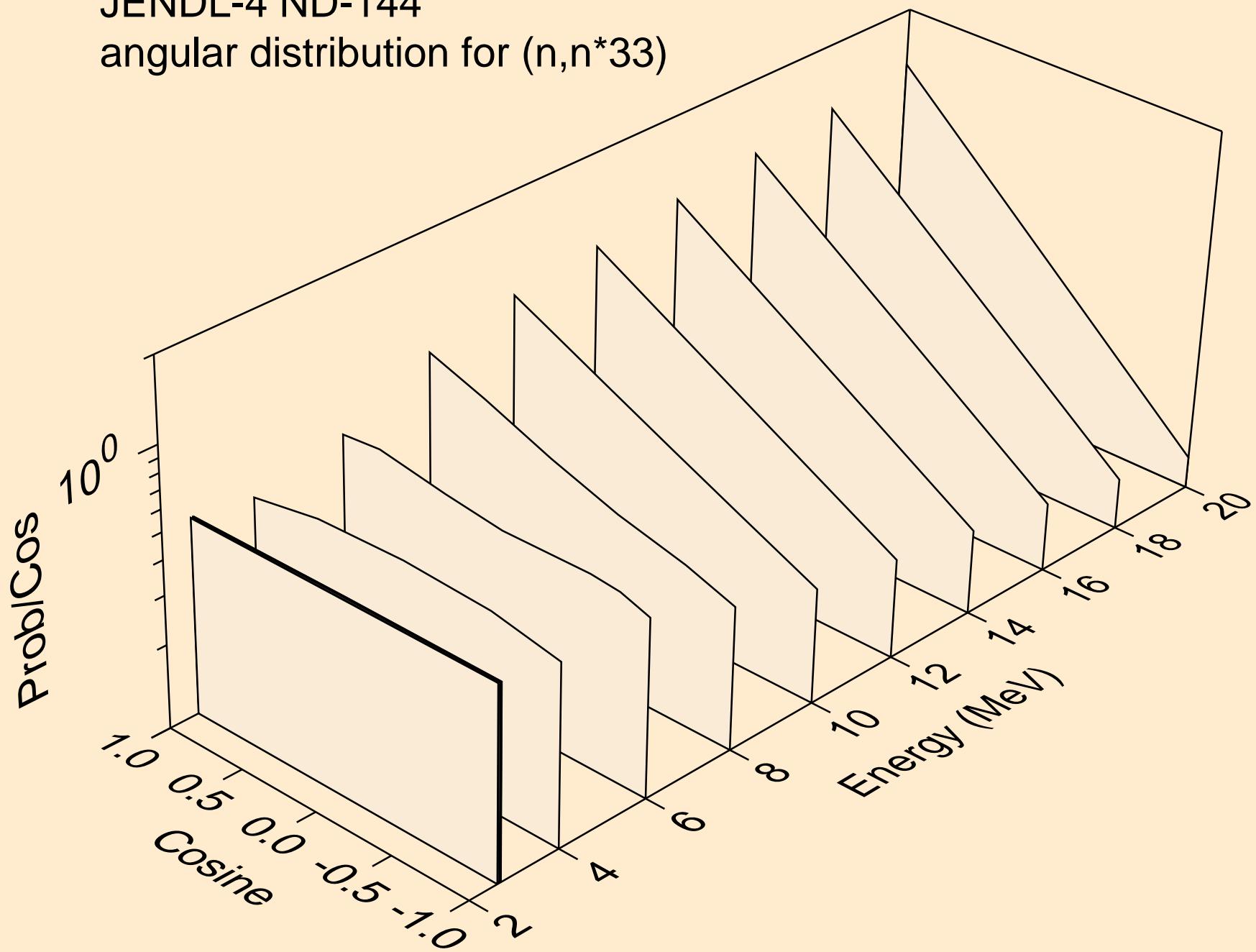
JENDL-4 ND-144  
angular distribution for ( $n,n^*$ 31)



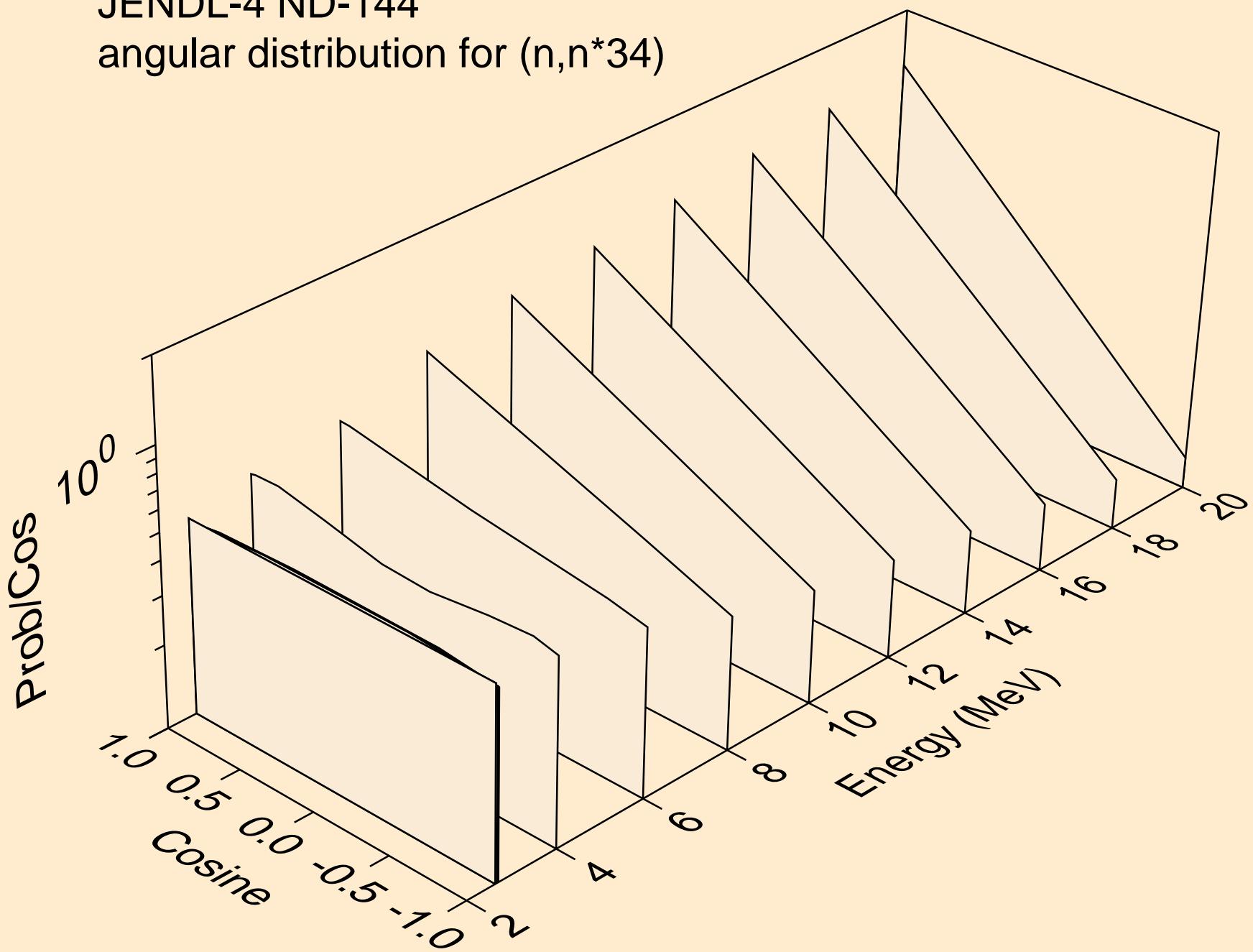
JENDL-4 ND-144  
angular distribution for  $(n,n^*32)$



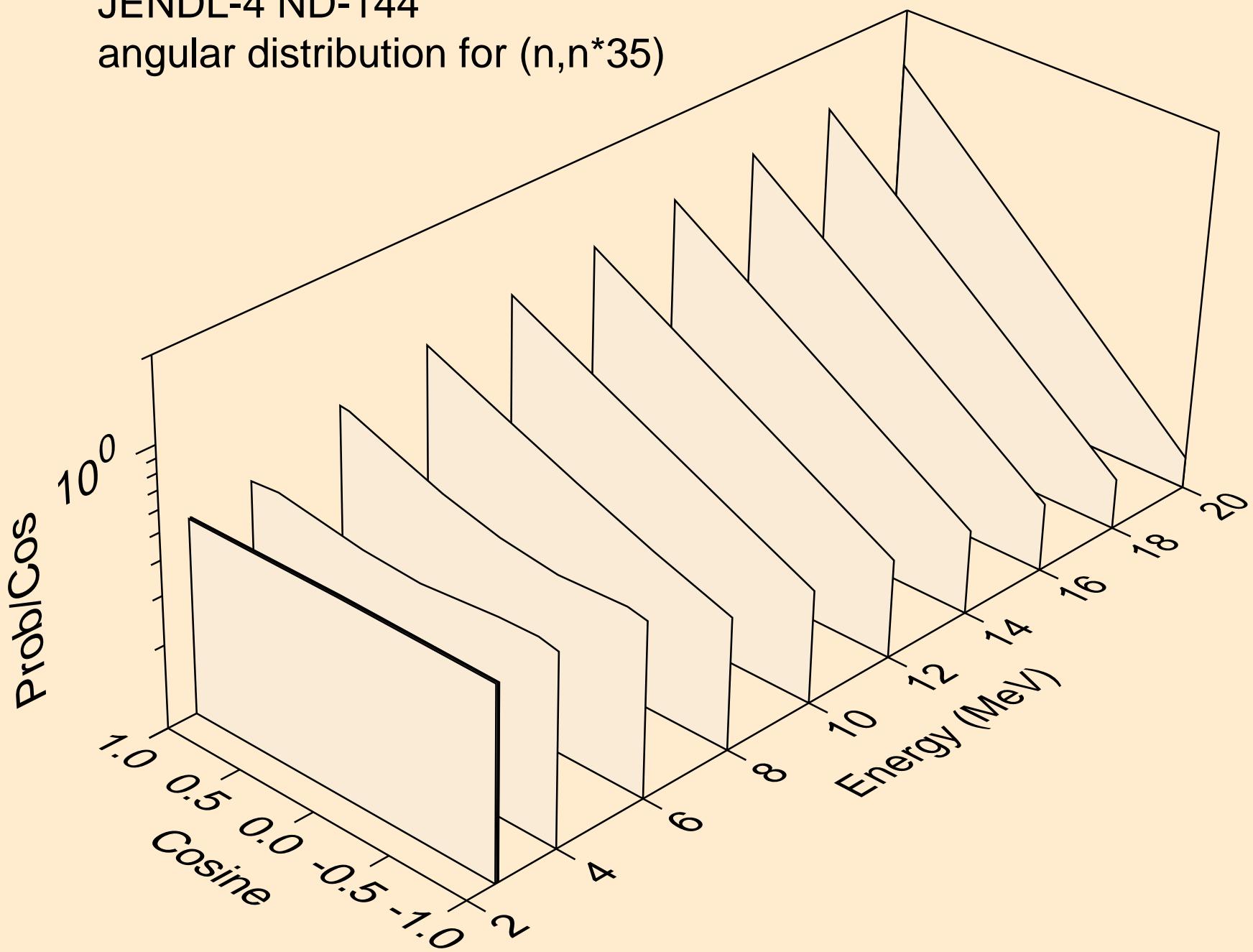
JENDL-4 ND-144  
angular distribution for ( $n, n^* 33$ )



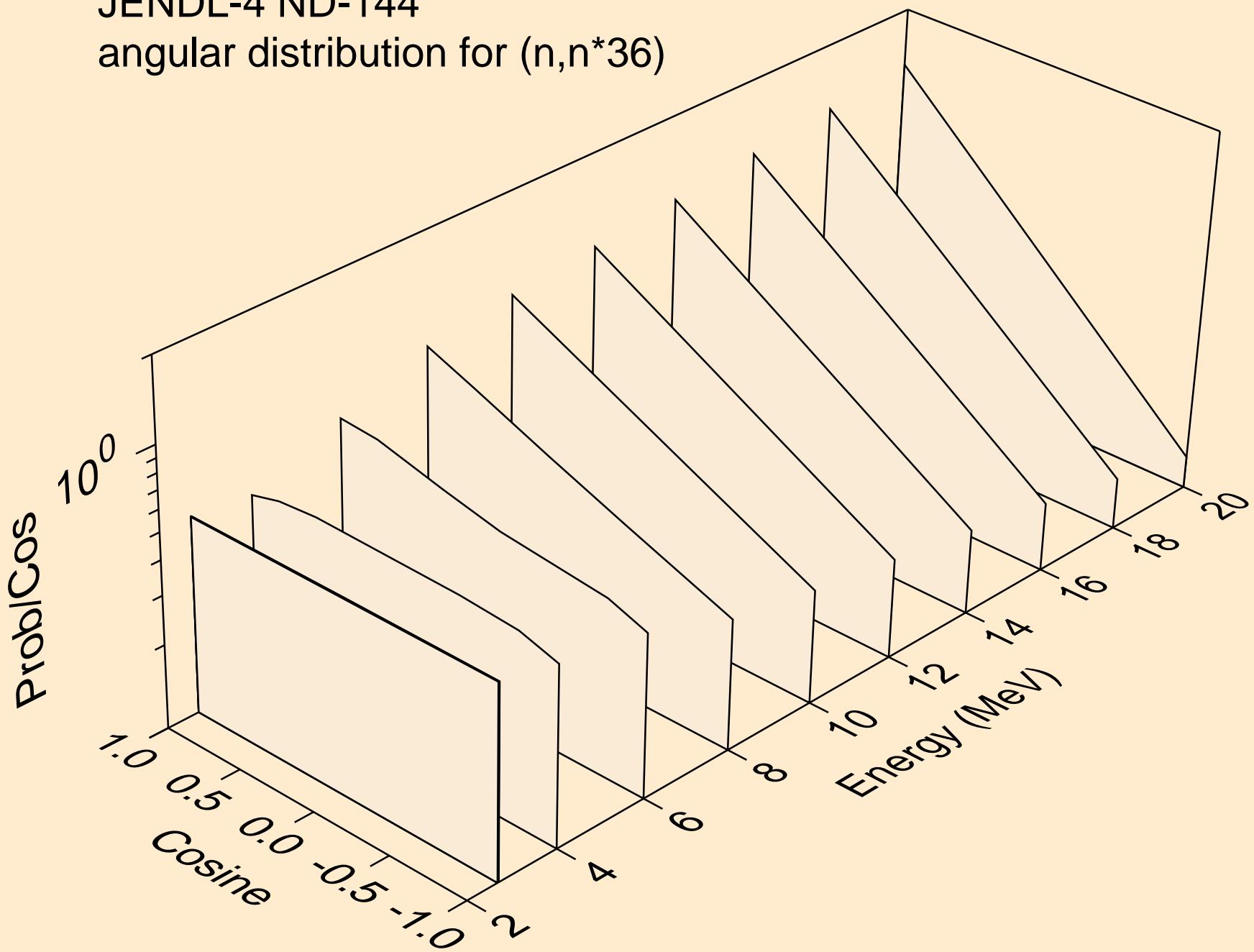
JENDL-4 ND-144  
angular distribution for ( $n, n^* 34$ )



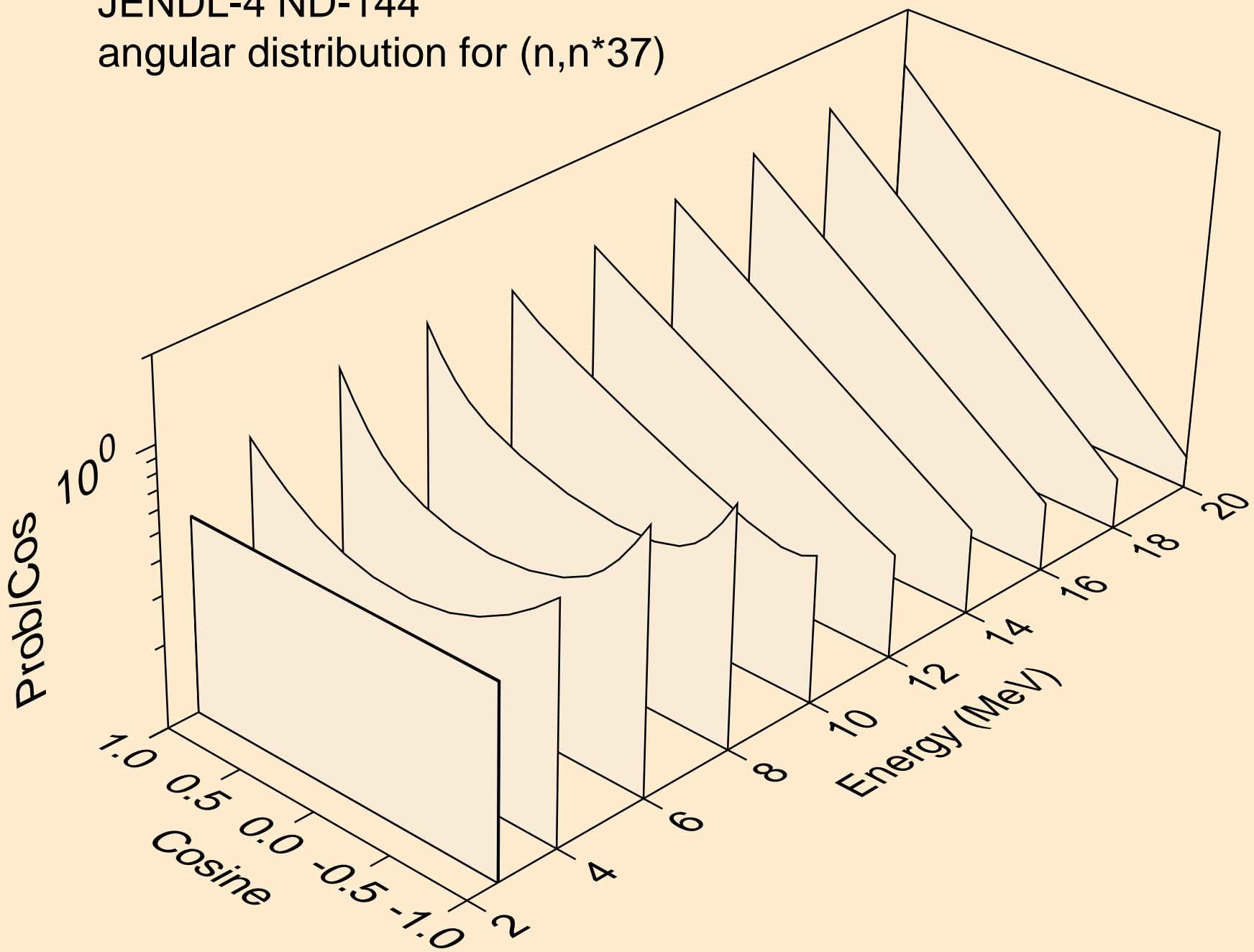
JENDL-4 ND-144  
angular distribution for  $(n,n^*35)$



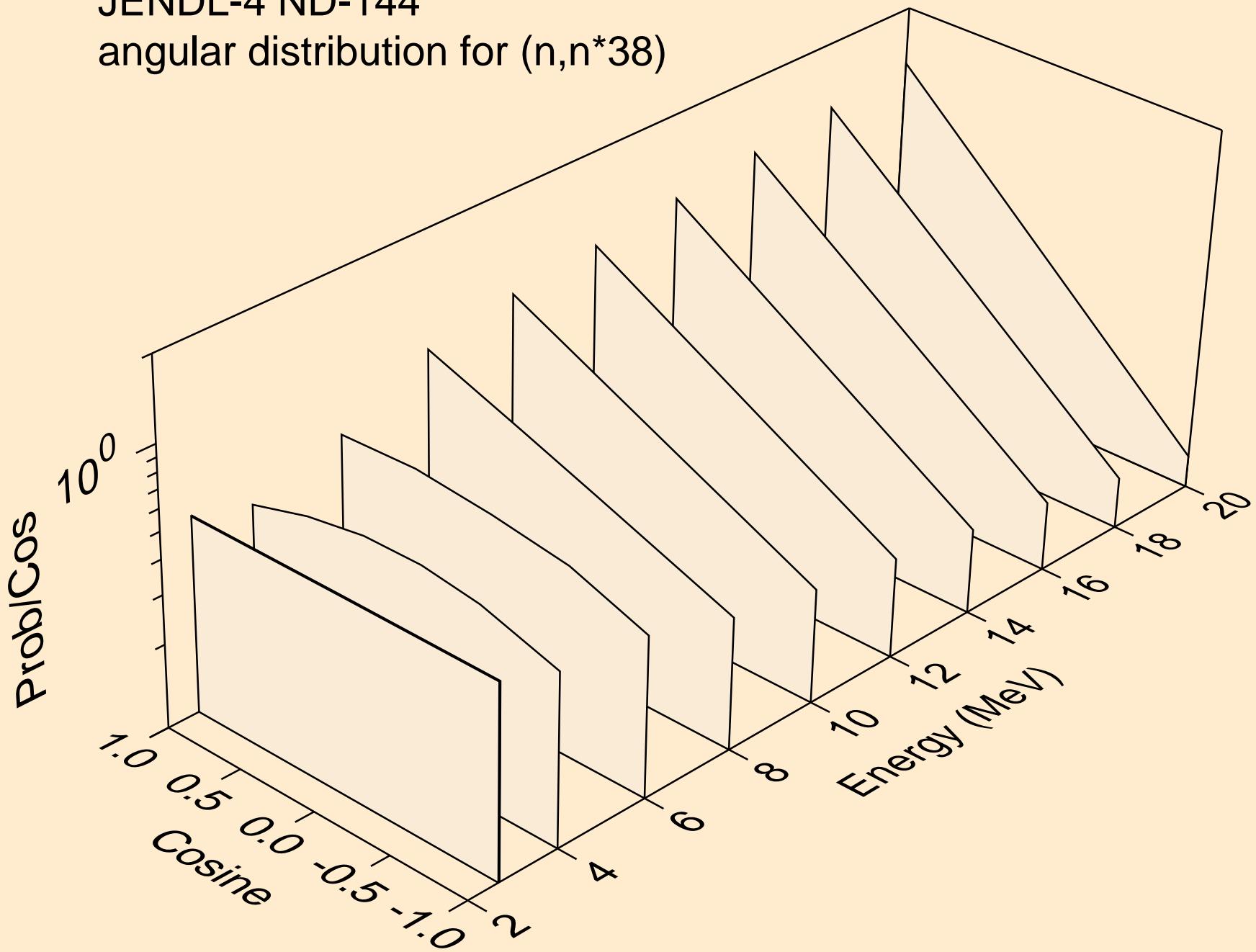
JENDL-4 ND-144  
angular distribution for  $(n,n^*36)$



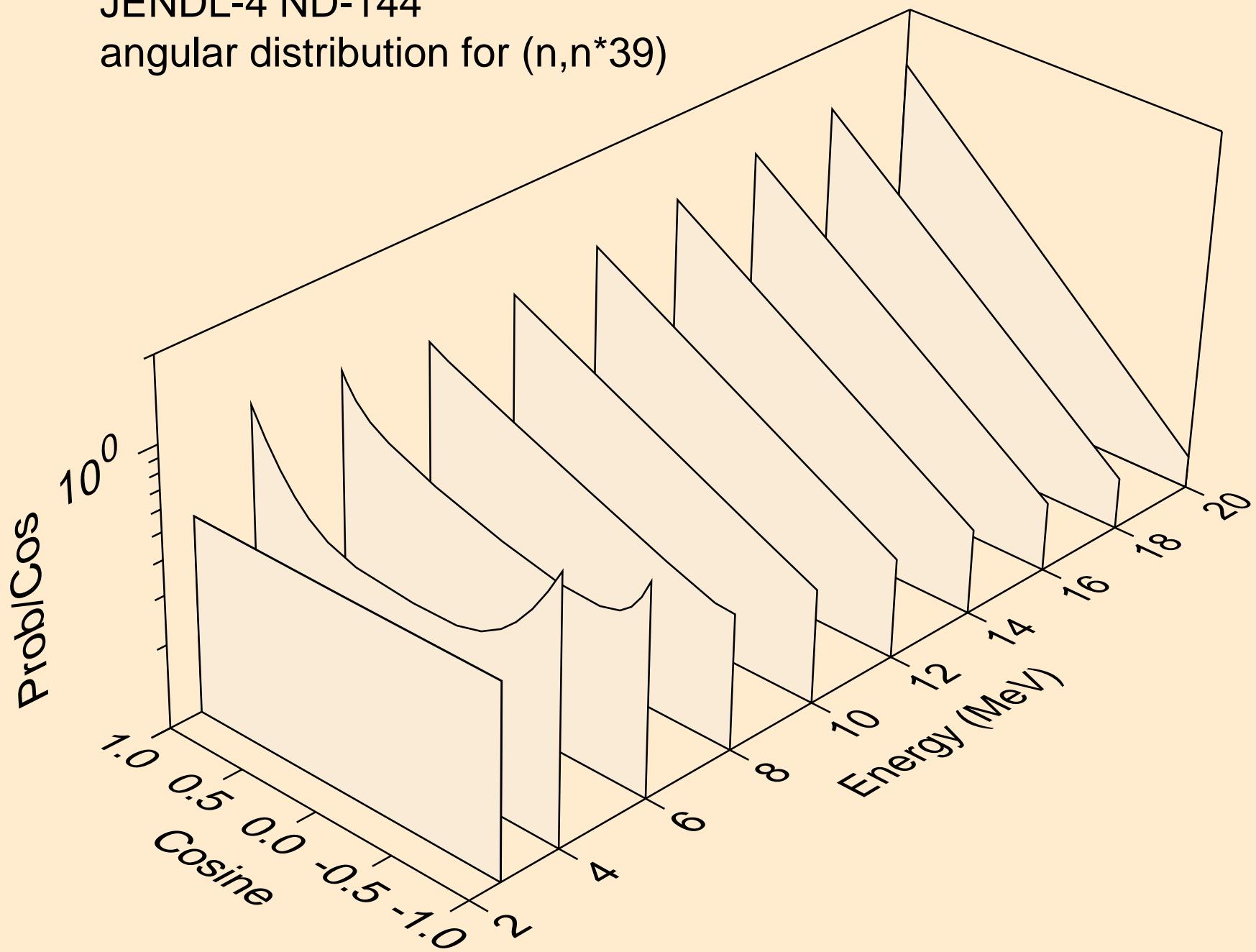
JENDL-4 ND-144  
angular distribution for ( $n, n^* 37$ )



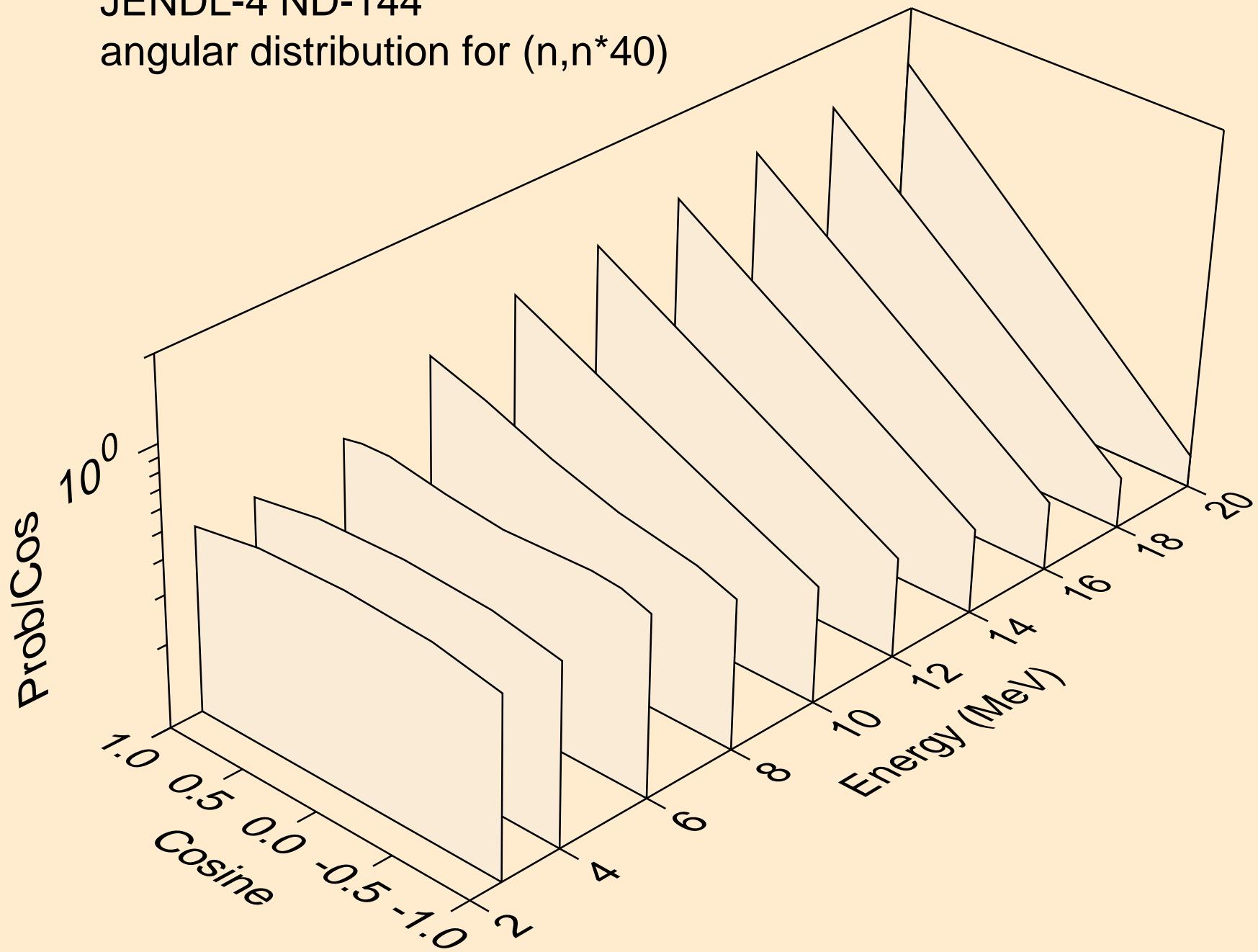
JENDL-4 ND-144  
angular distribution for ( $n, n^* 38$ )



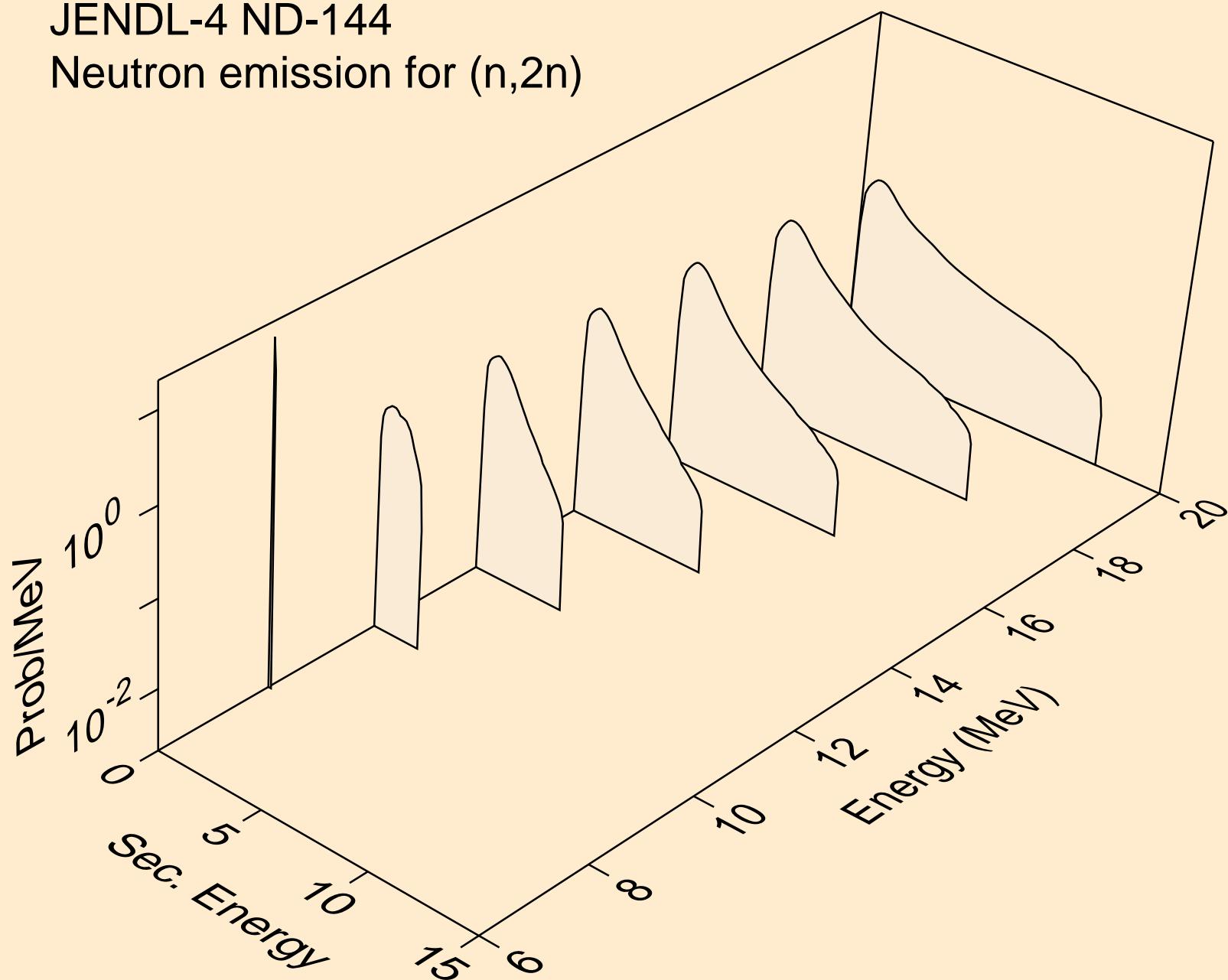
JENDL-4 ND-144  
angular distribution for  $(n,n^*39)$



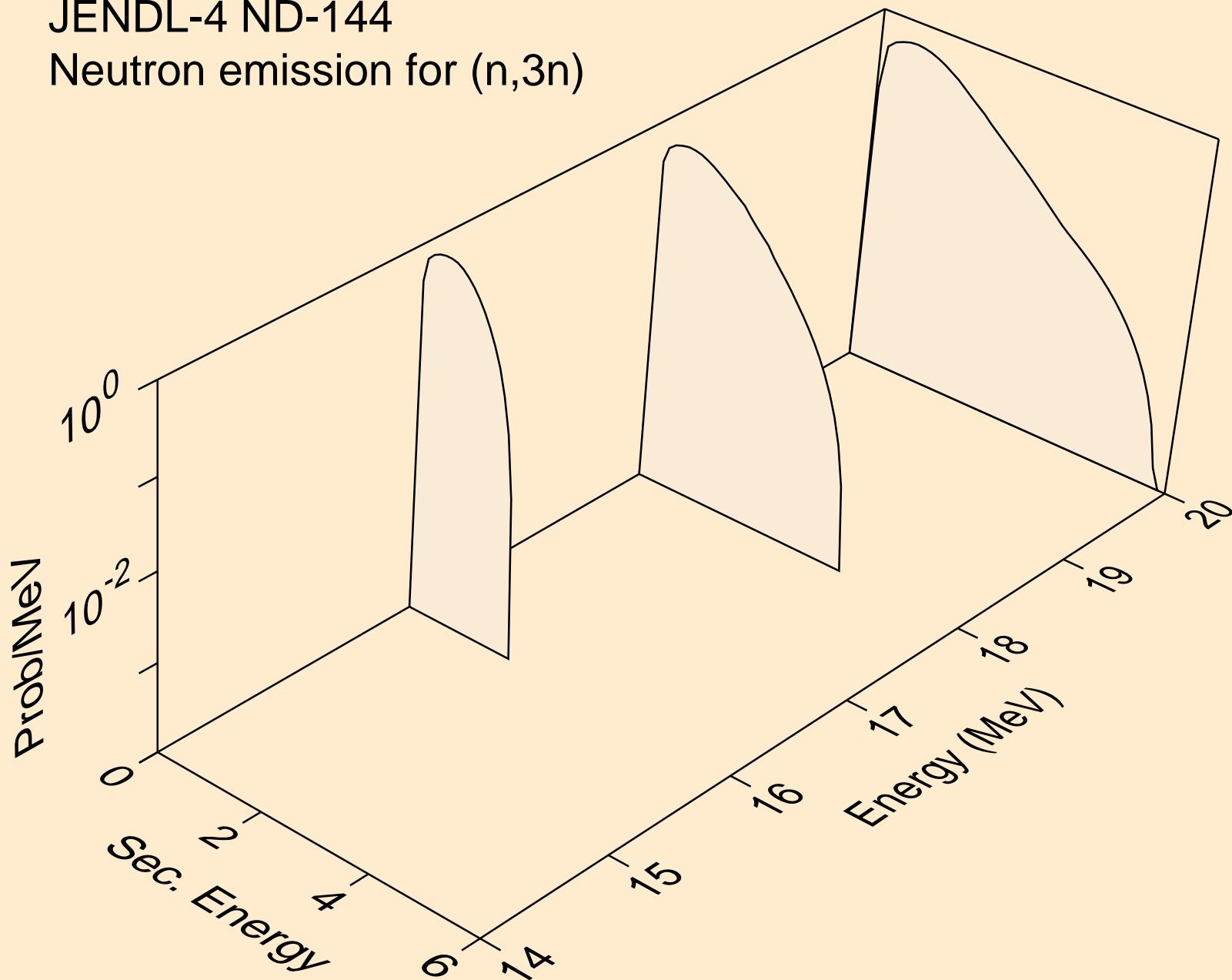
JENDL-4 ND-144  
angular distribution for ( $n,n^*$ )40



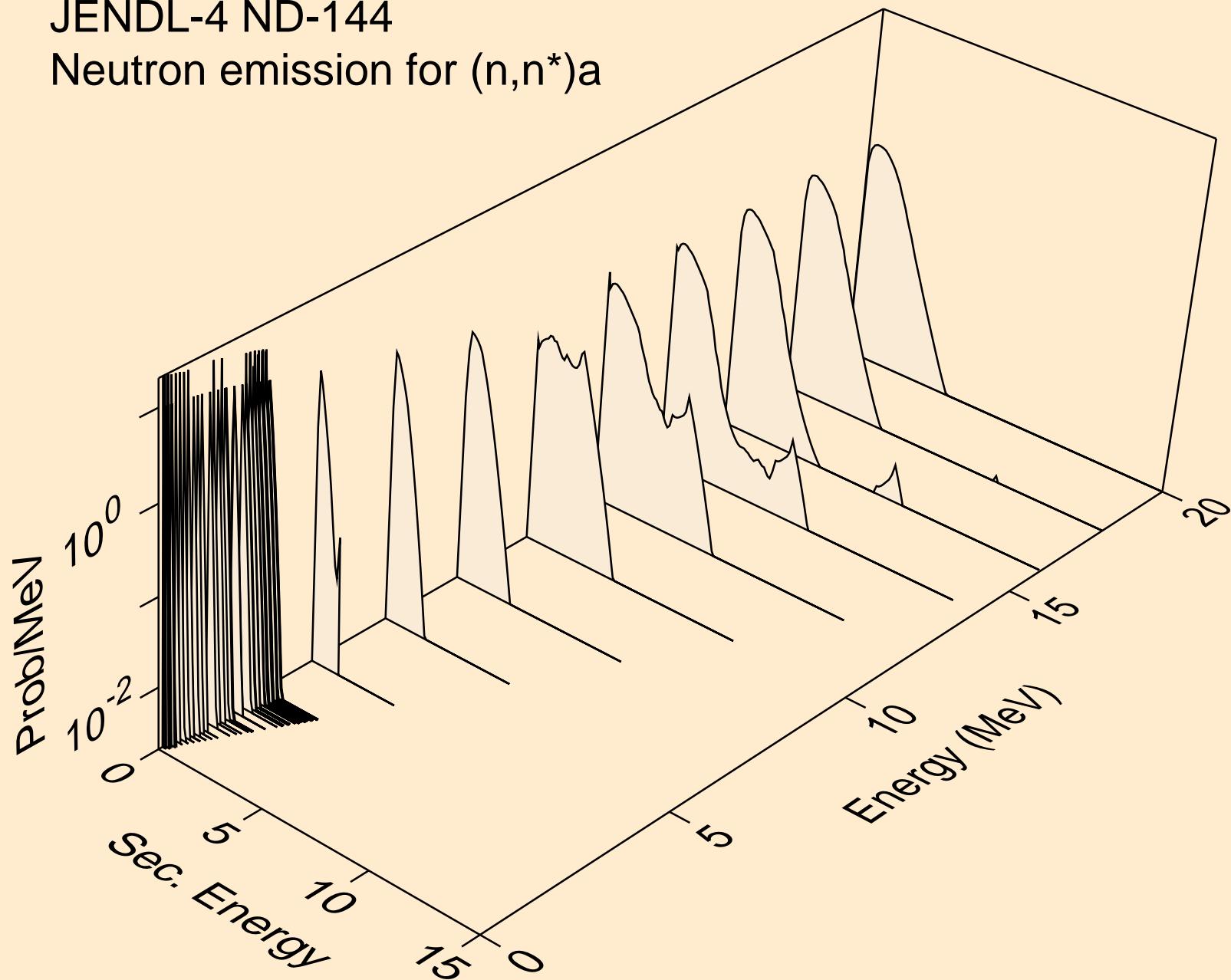
JENDL-4 ND-144  
Neutron emission for  $(n,2n)$



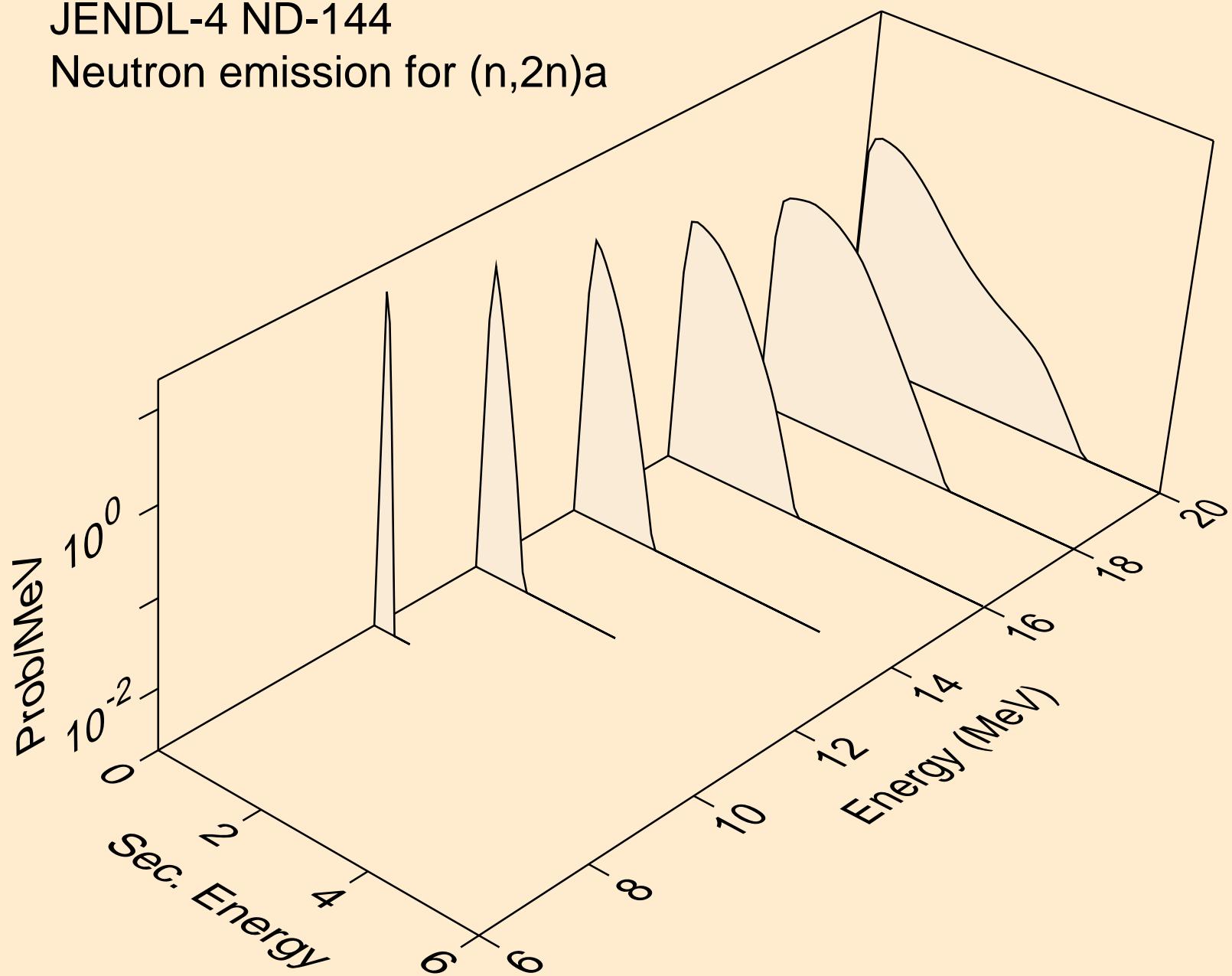
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Neutron emission for  $(n,3n)$



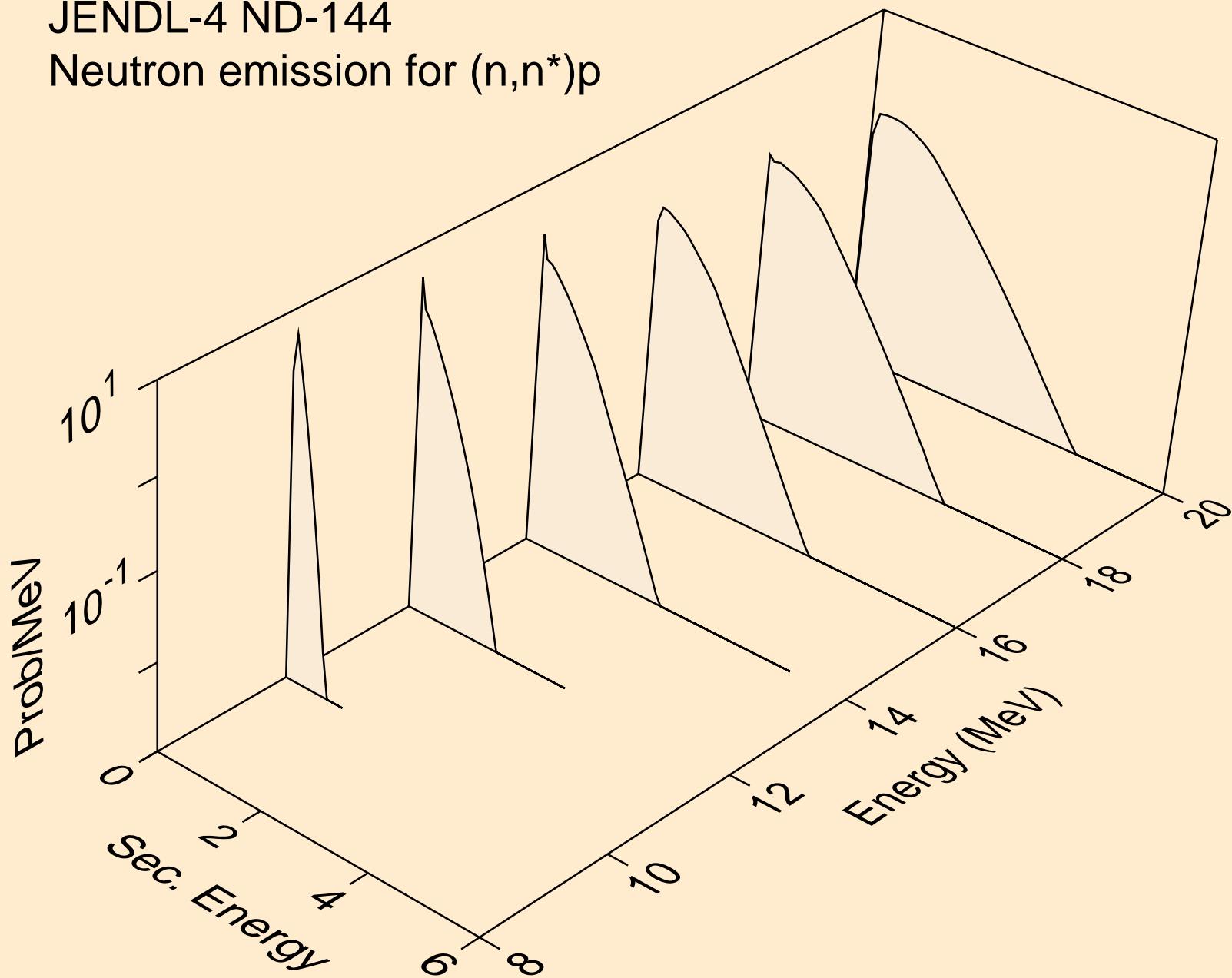
JENDL-4 ND-144  
Neutron emission for  $(n,n^*)a$



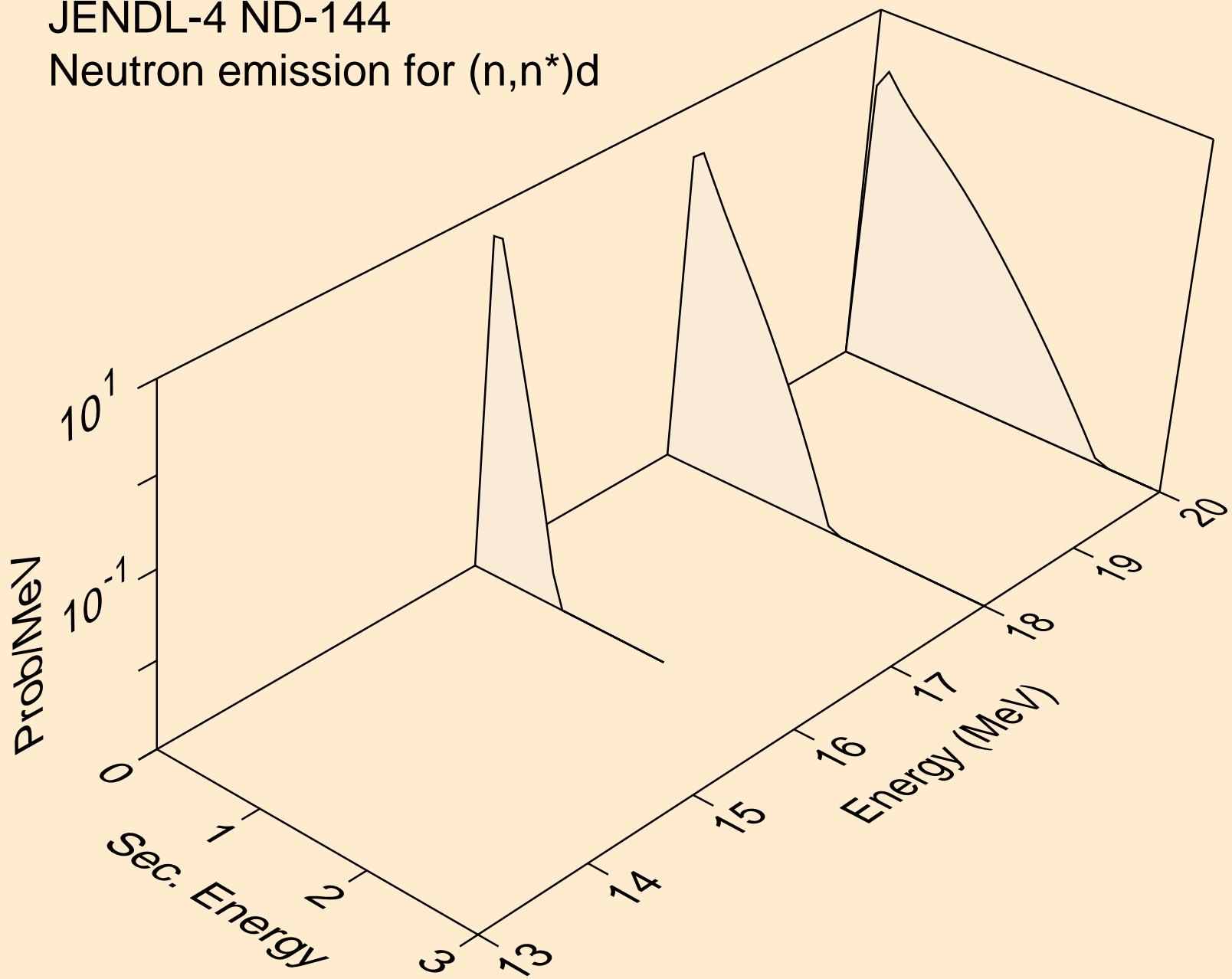
JENDL-4 ND-144  
Neutron emission for  $(n,2n)a$



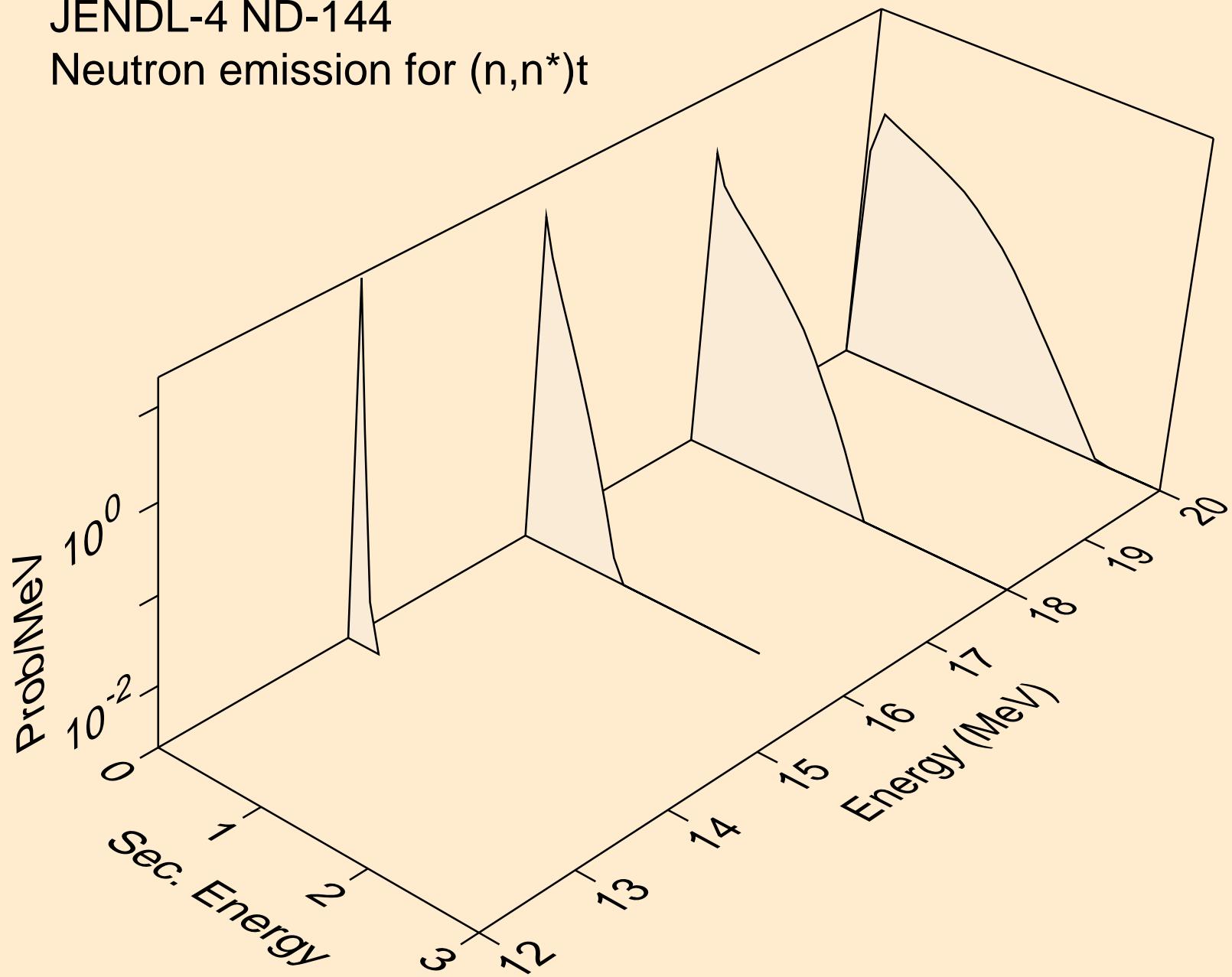
JENDL-4 ND-144  
Neutron emission for  $(n,n^*)p$



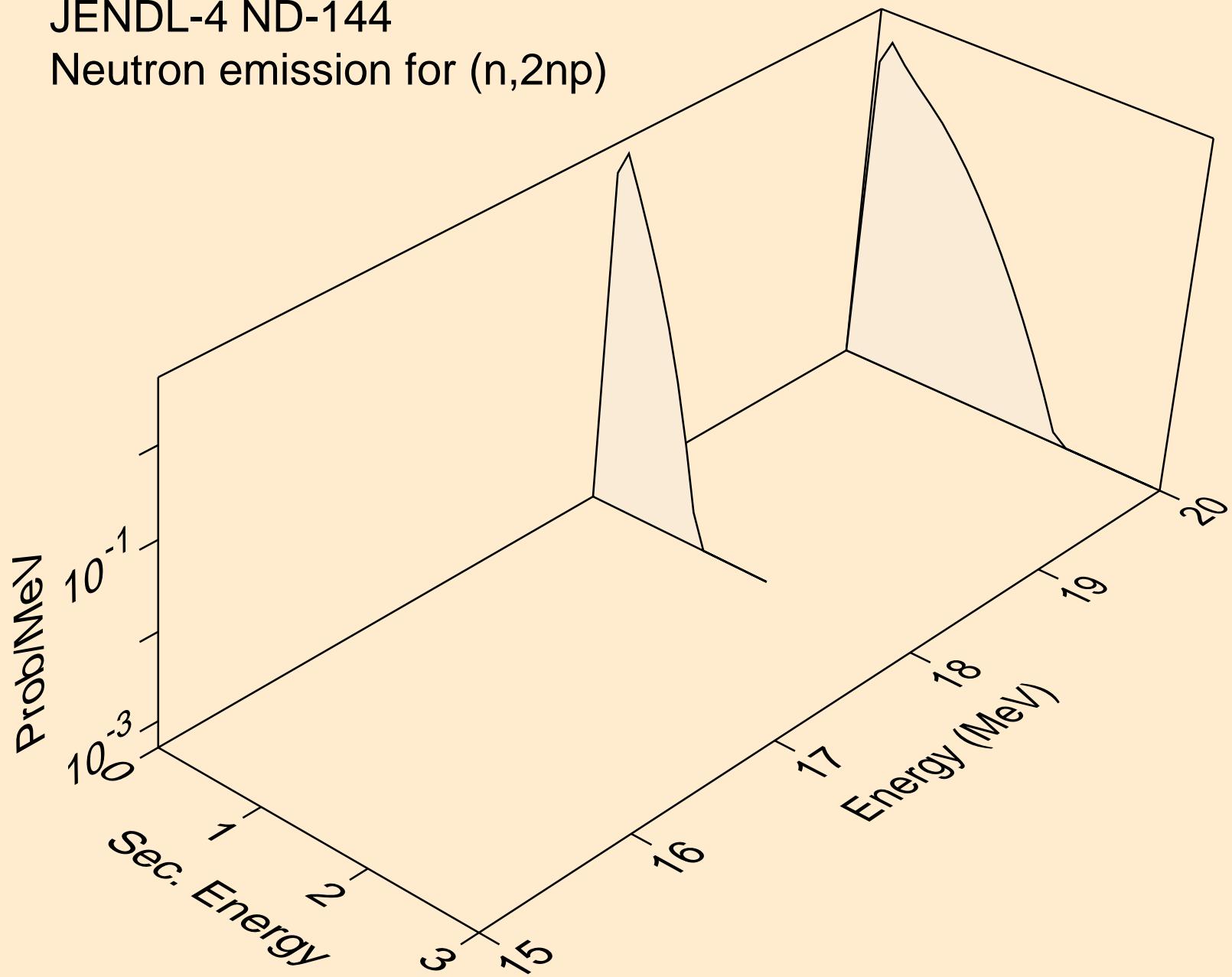
JENDL-4 ND-144  
Neutron emission for  $(n,n^*)d$



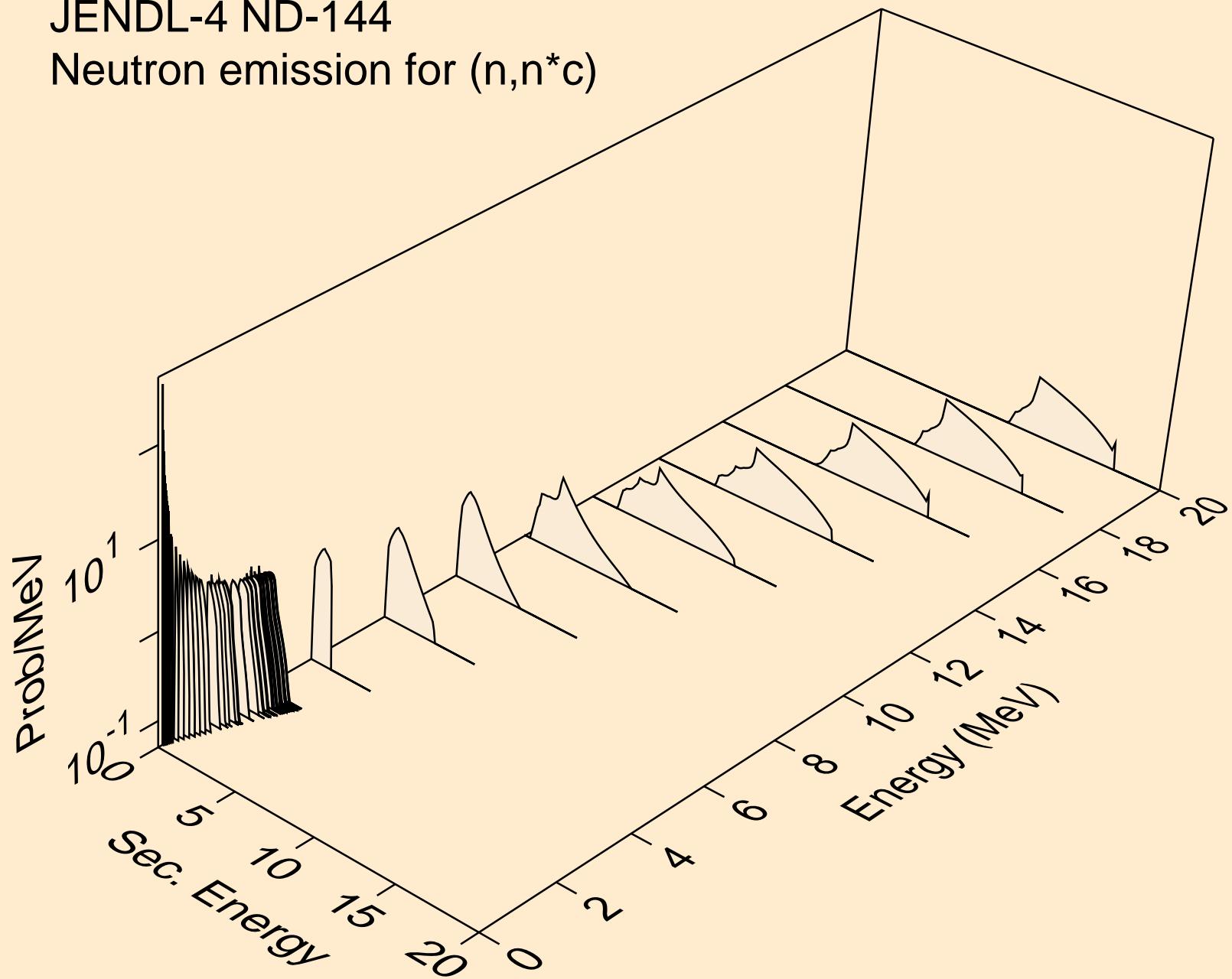
JENDL-4 ND-144  
Neutron emission for  $(n,n^*)t$



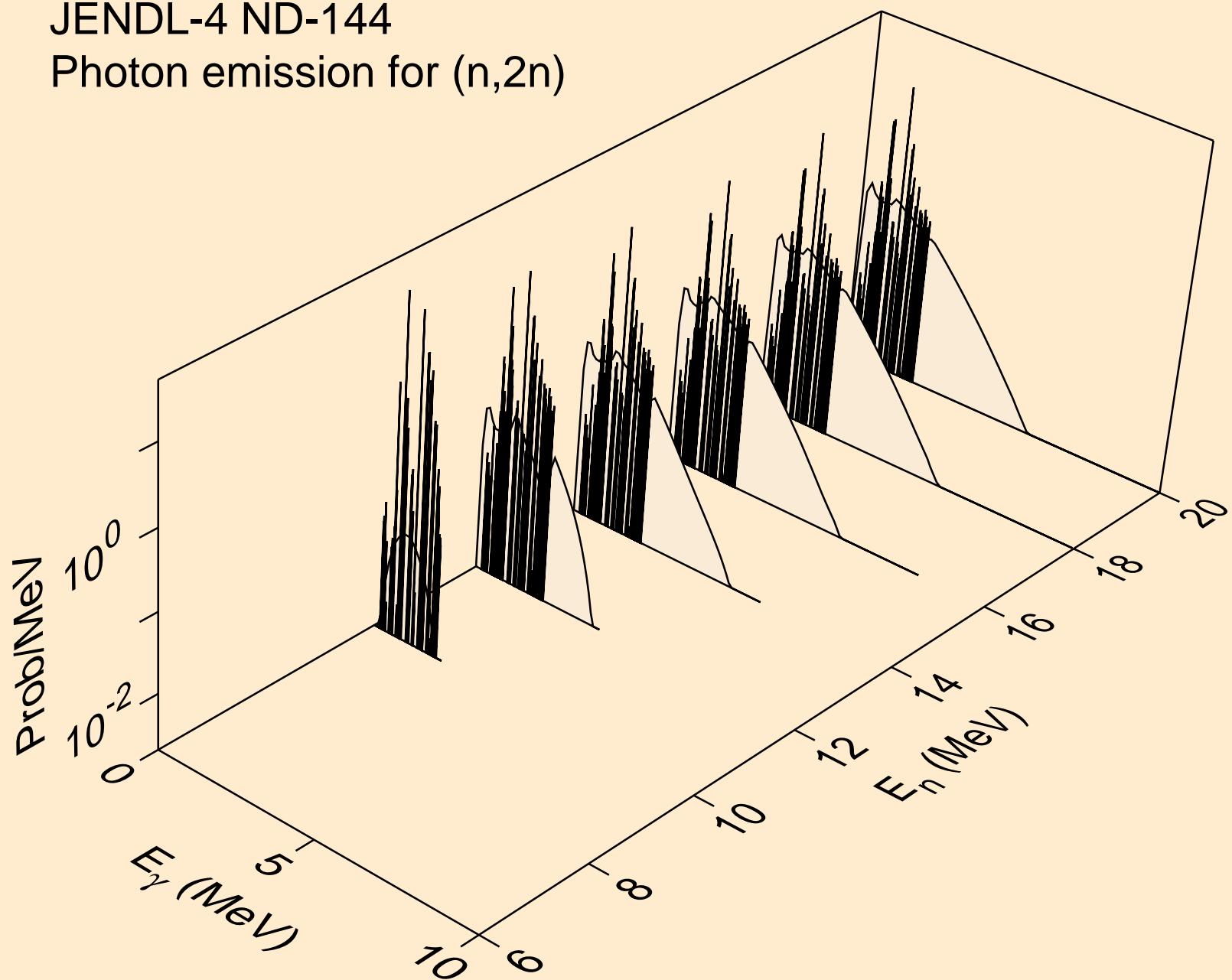
JENDL-4 ND-144  
Neutron emission for (n,2np)



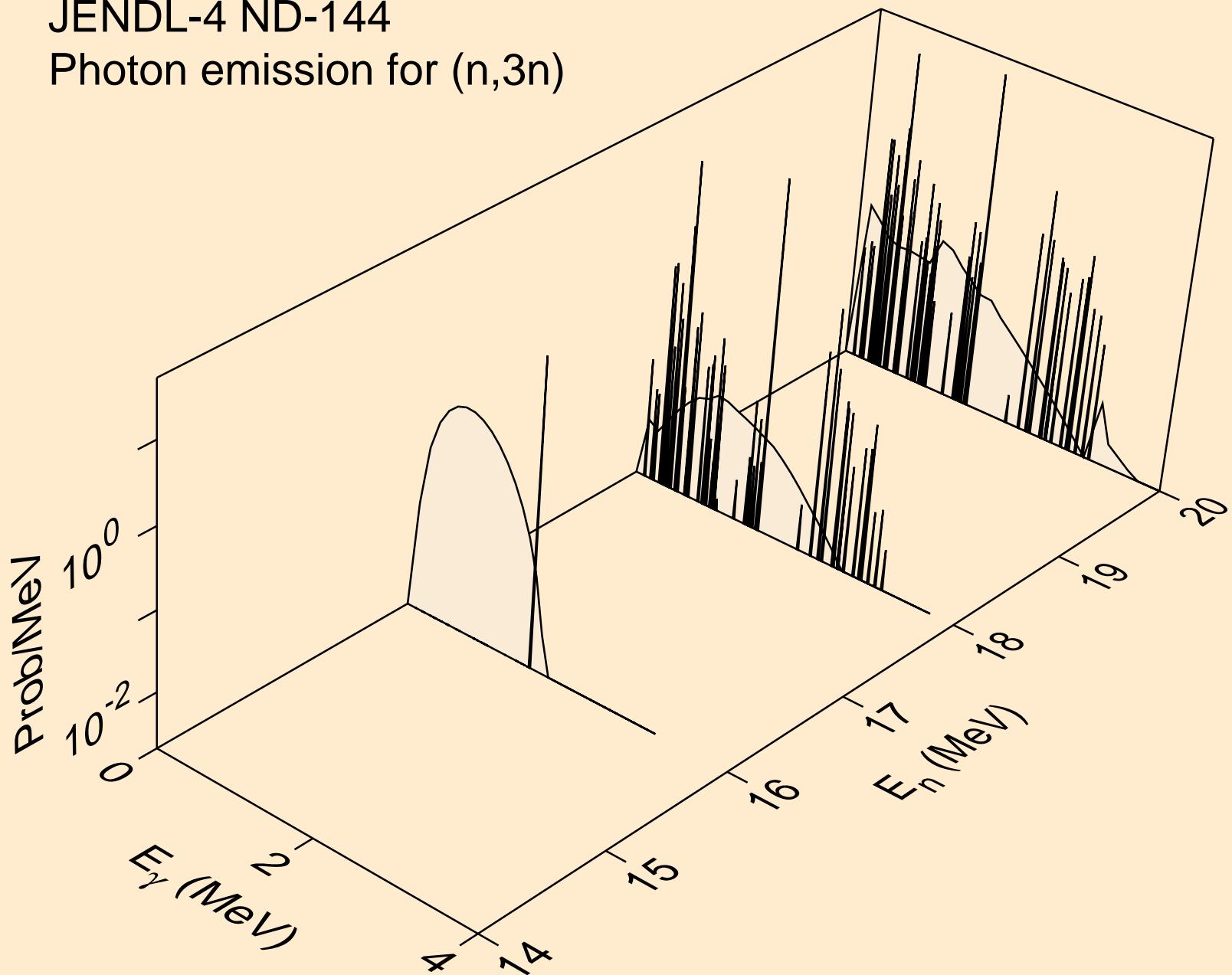
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Neutron emission for  $(n,n^*c)$



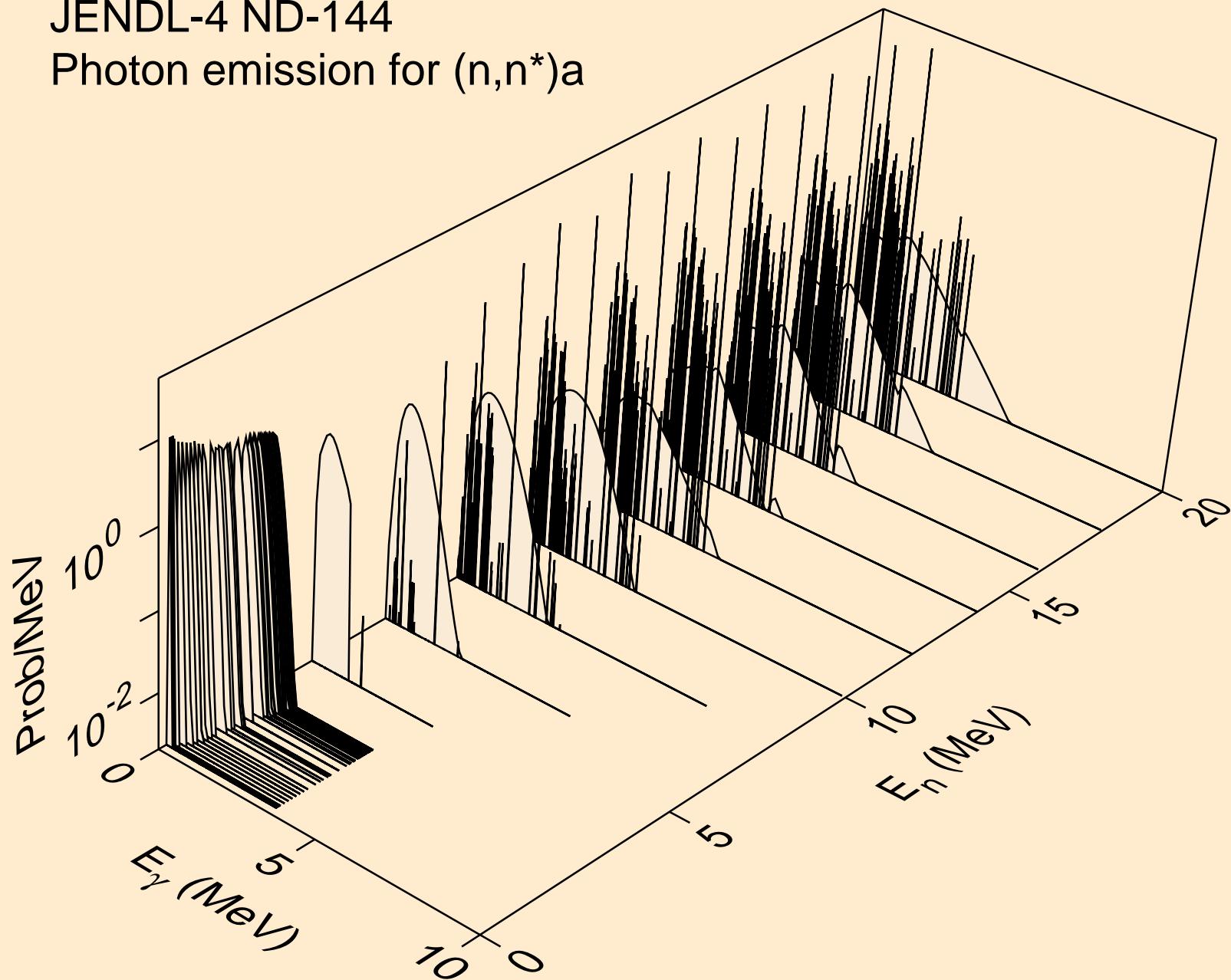
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Photon emission for ( $n,2n$ )



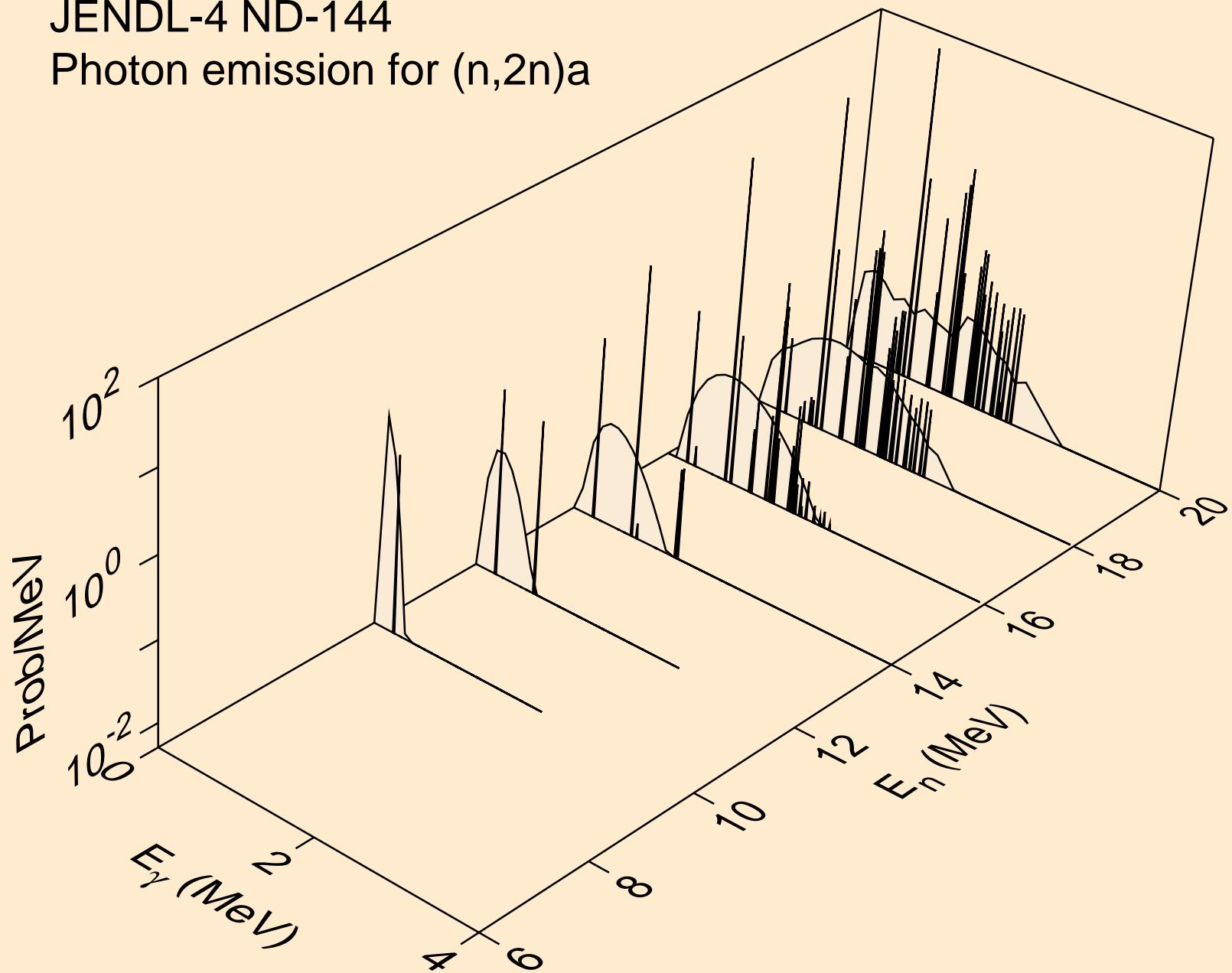
JENDL-4 ND-144  
Photon emission for (n,3n)



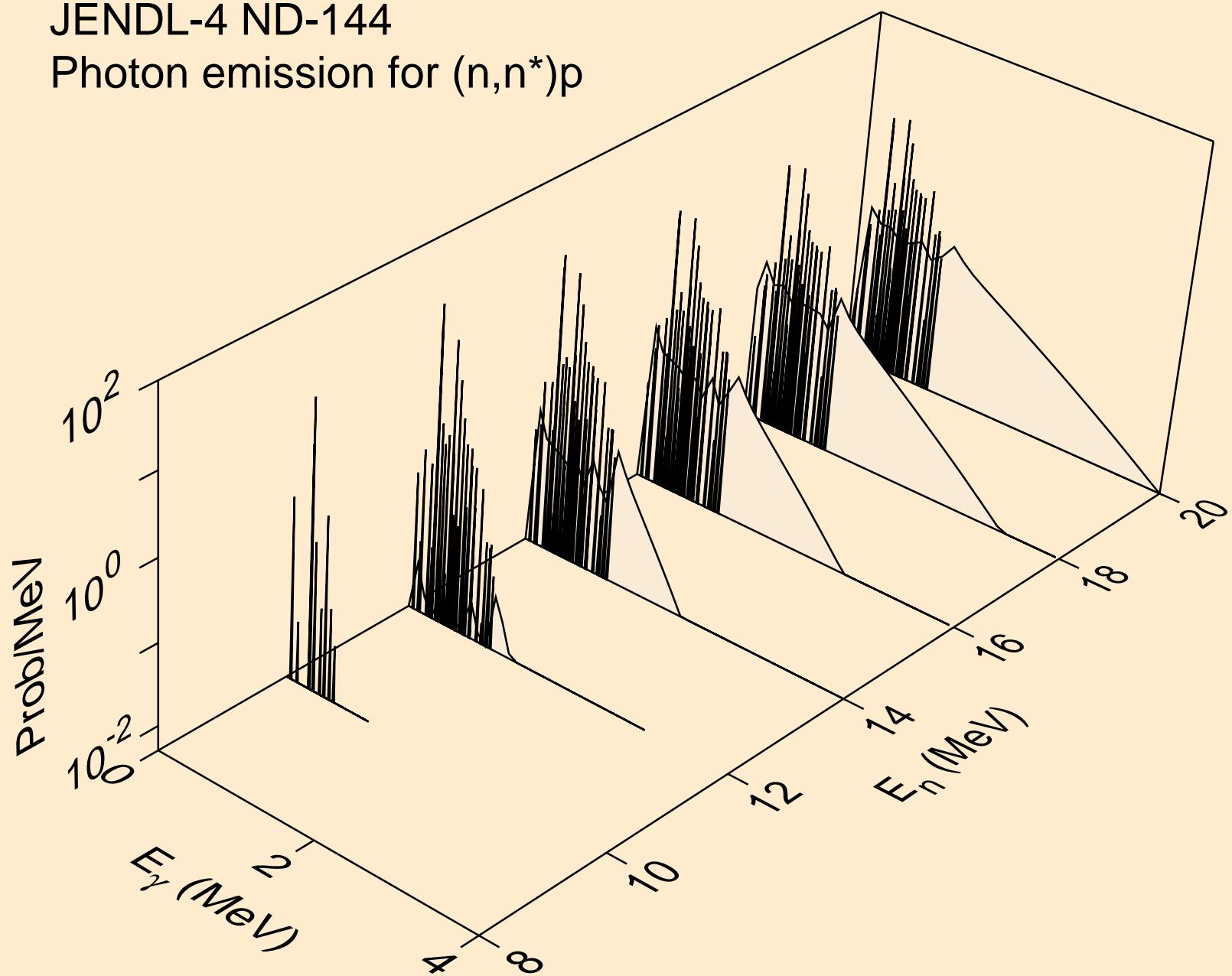
JENDL-4 ND-144  
Photon emission for  $(n,n^*)a$



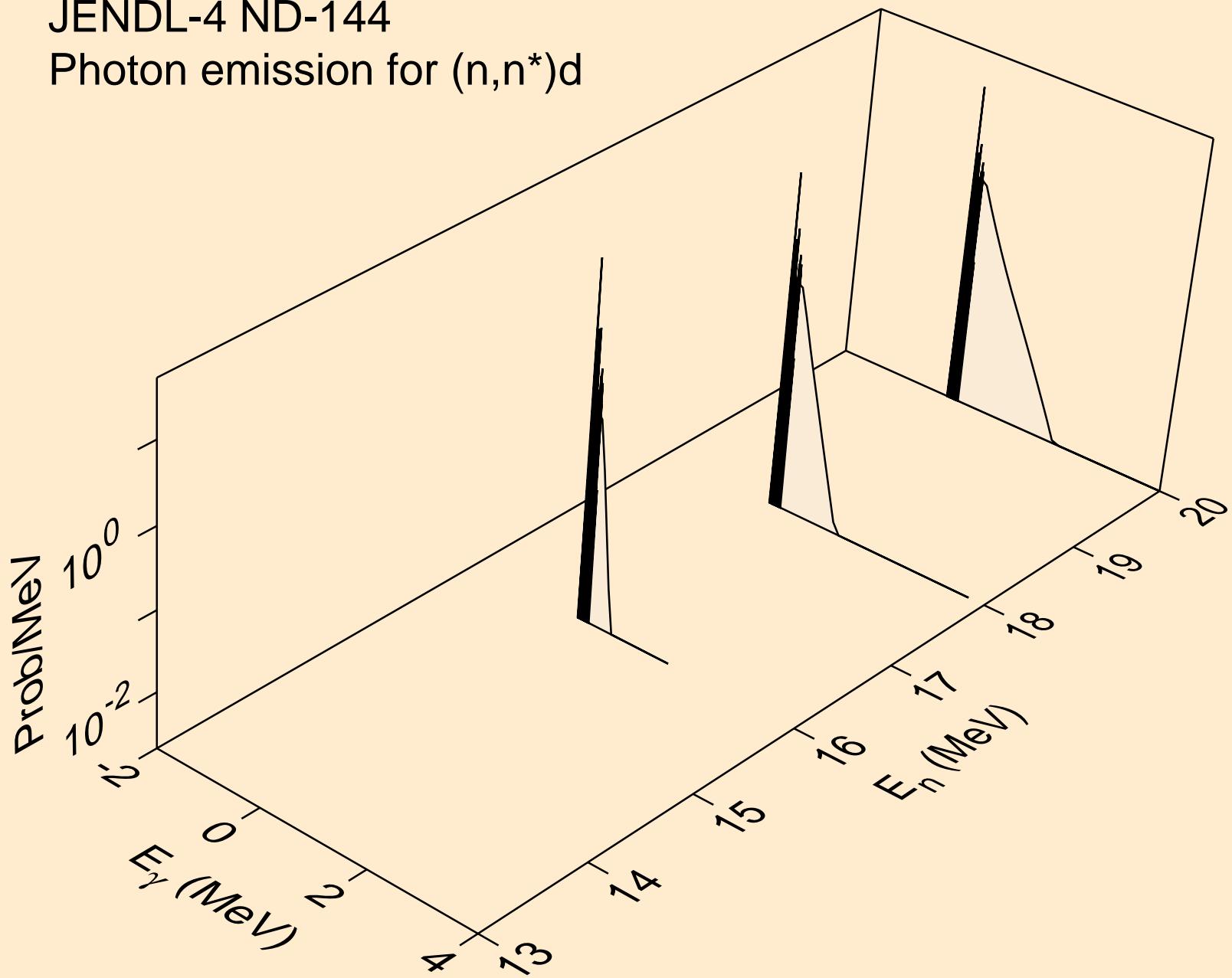
JENDL-4 ND-144  
Photon emission for  $(n,2n)a$



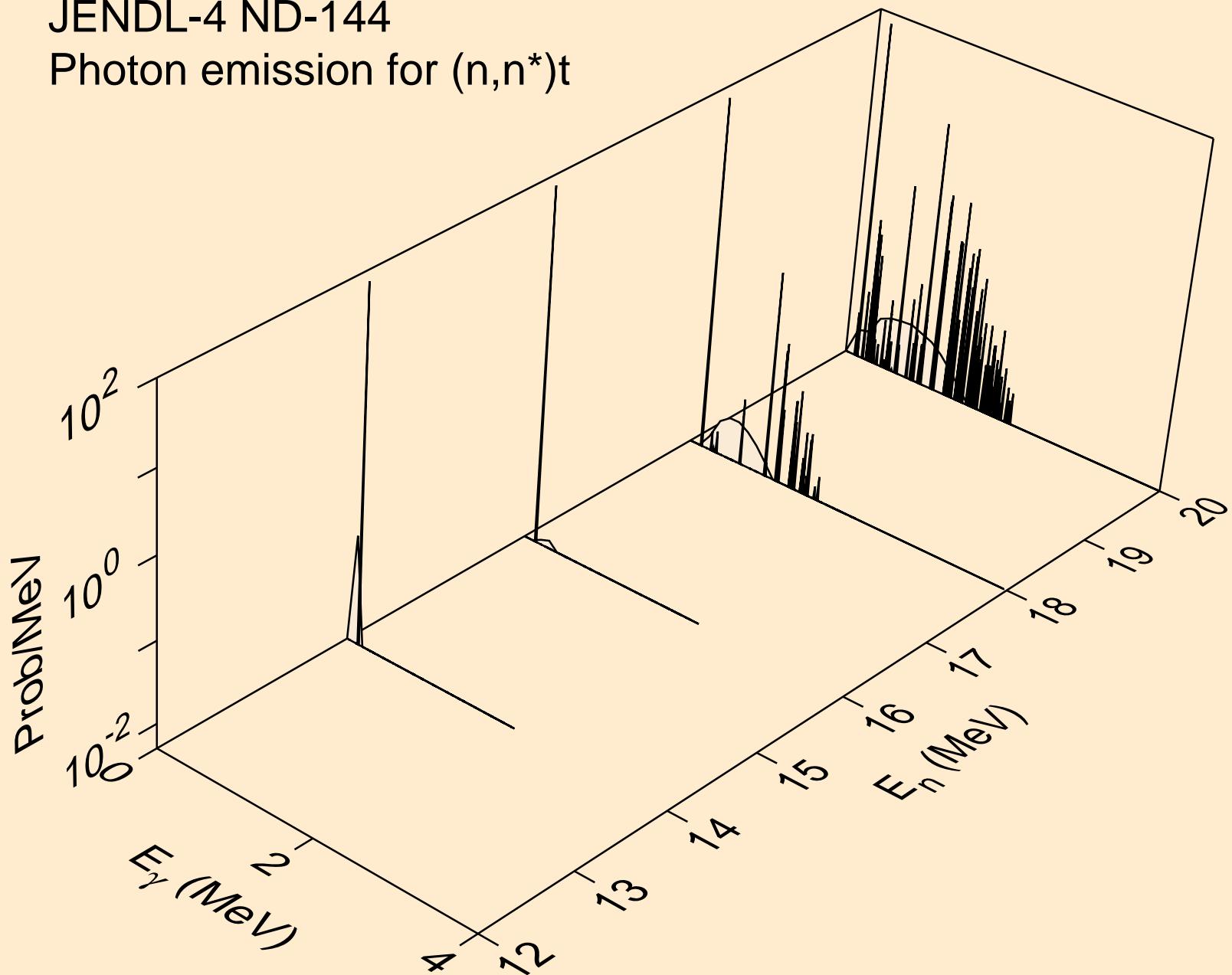
JENDL-4 ND-144  
Photon emission for  $(n,n^*)p$



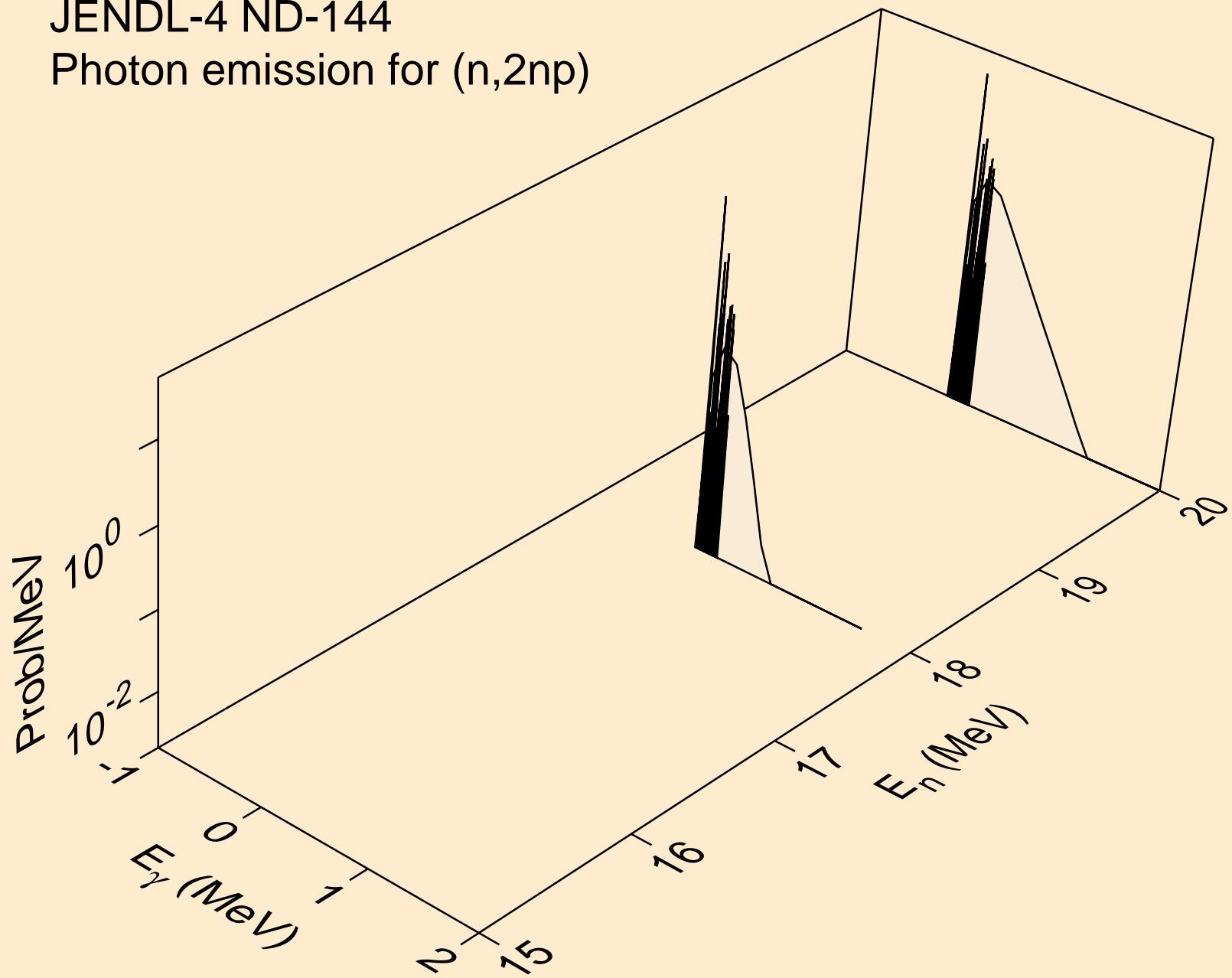
JENDL-4 ND-144  
Photon emission for  $(n,n^*)d$



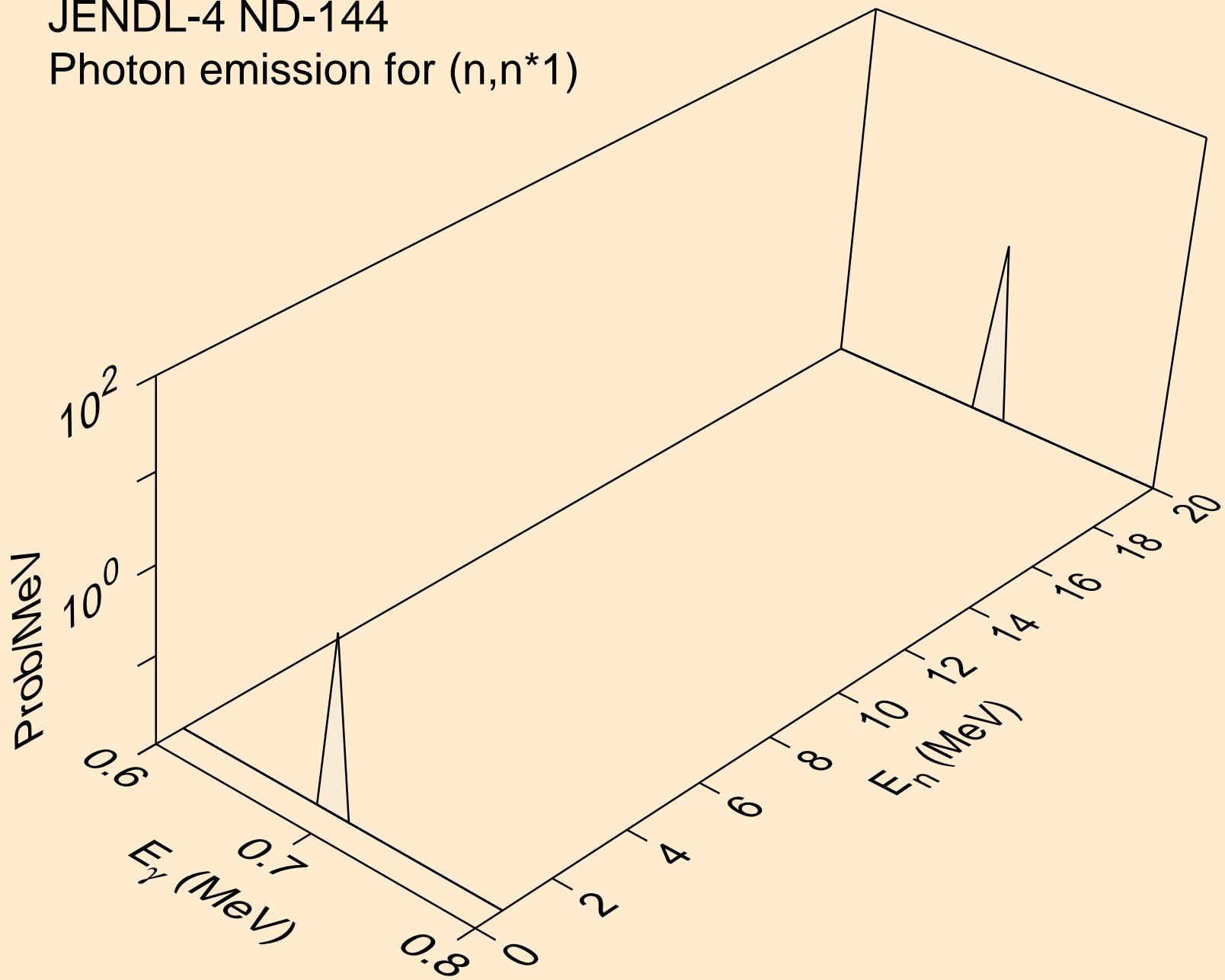
JENDL-4 ND-144  
Photon emission for  $(n,n^*)t$



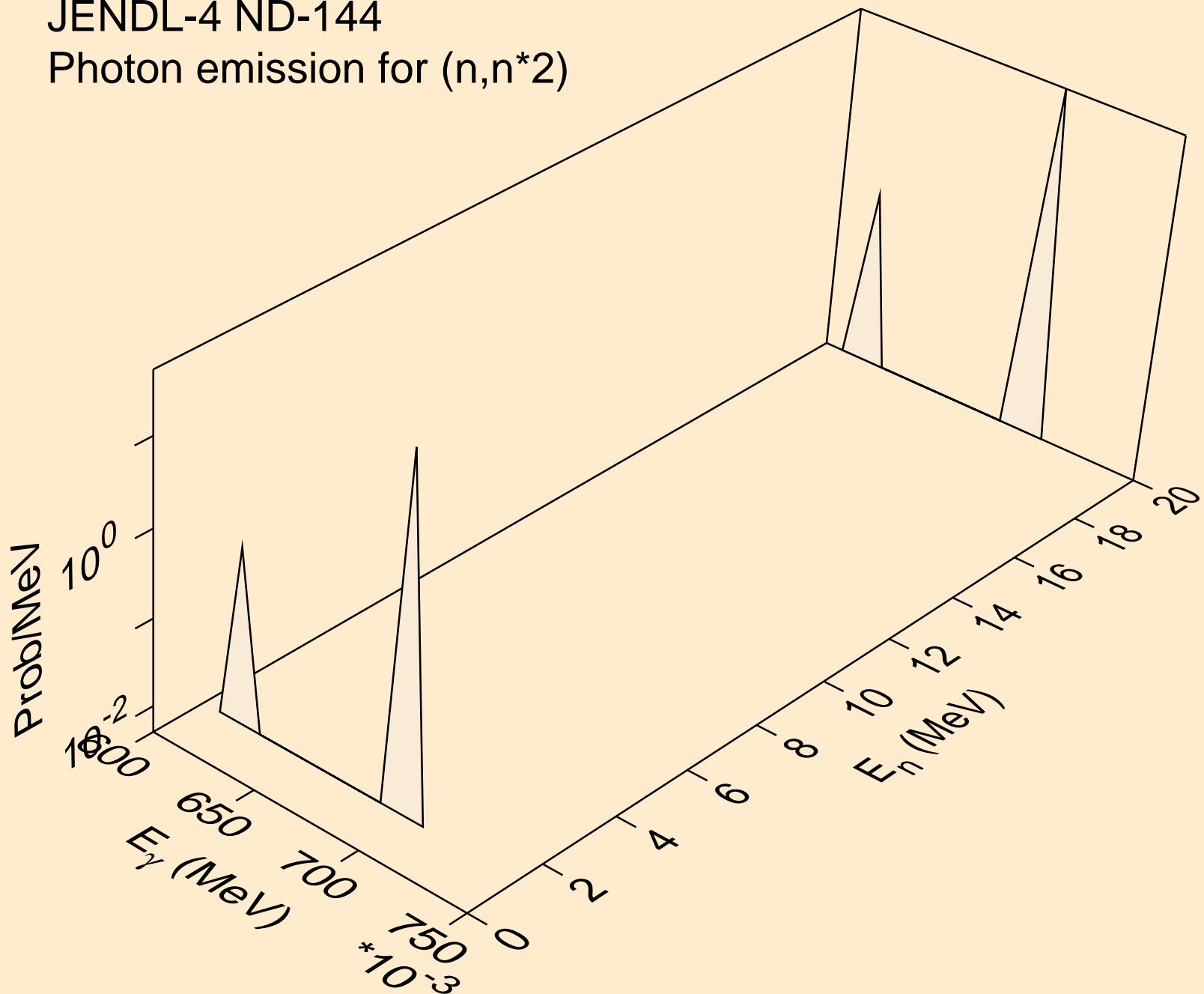
JENDL-4 ND-144  
Photon emission for ( $n,2np$ )



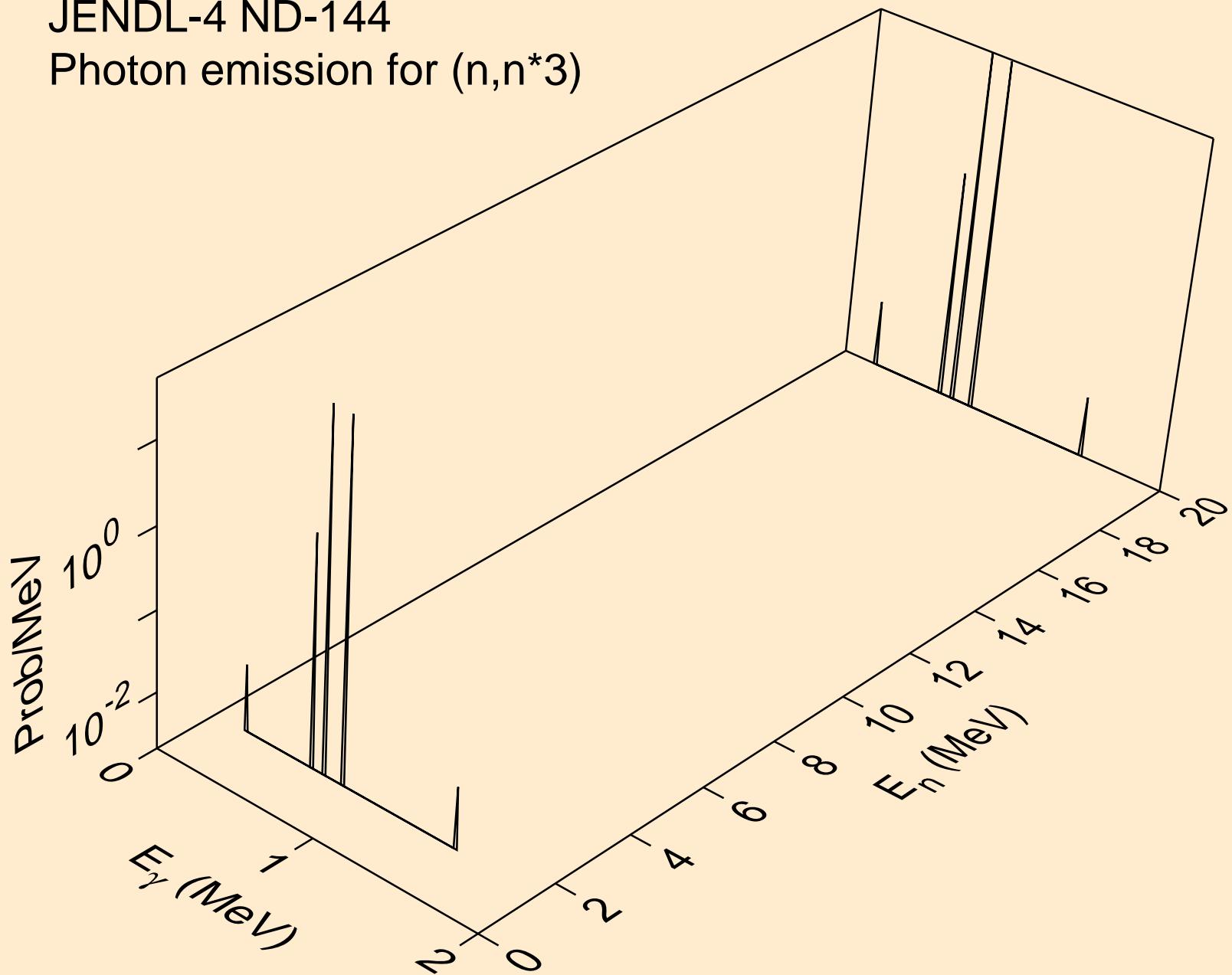
JENDL-4 ND-144  
Photon emission for (n,n\*1)



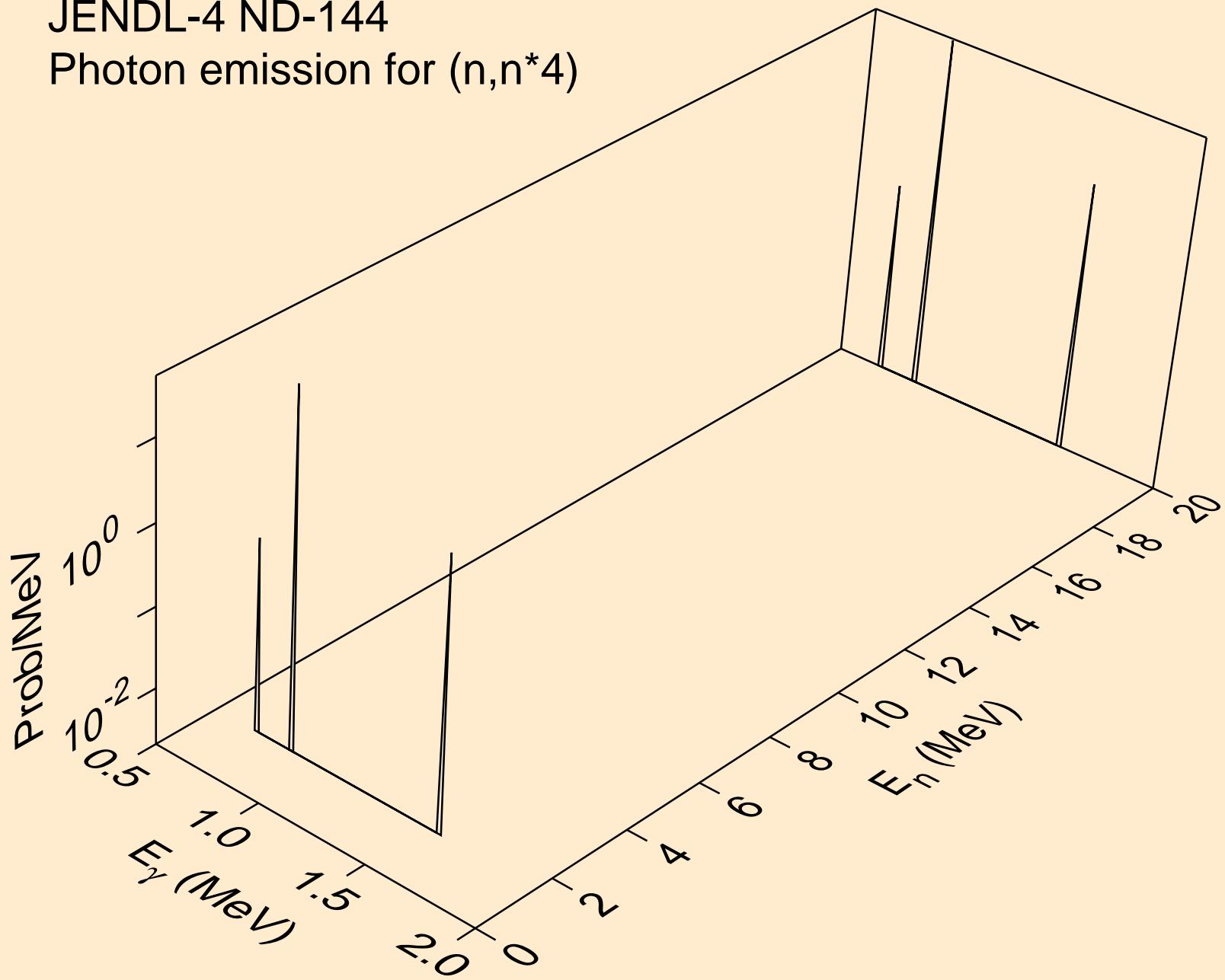
JENDL-4 ND-144  
Photon emission for  $(n,n^*2)$



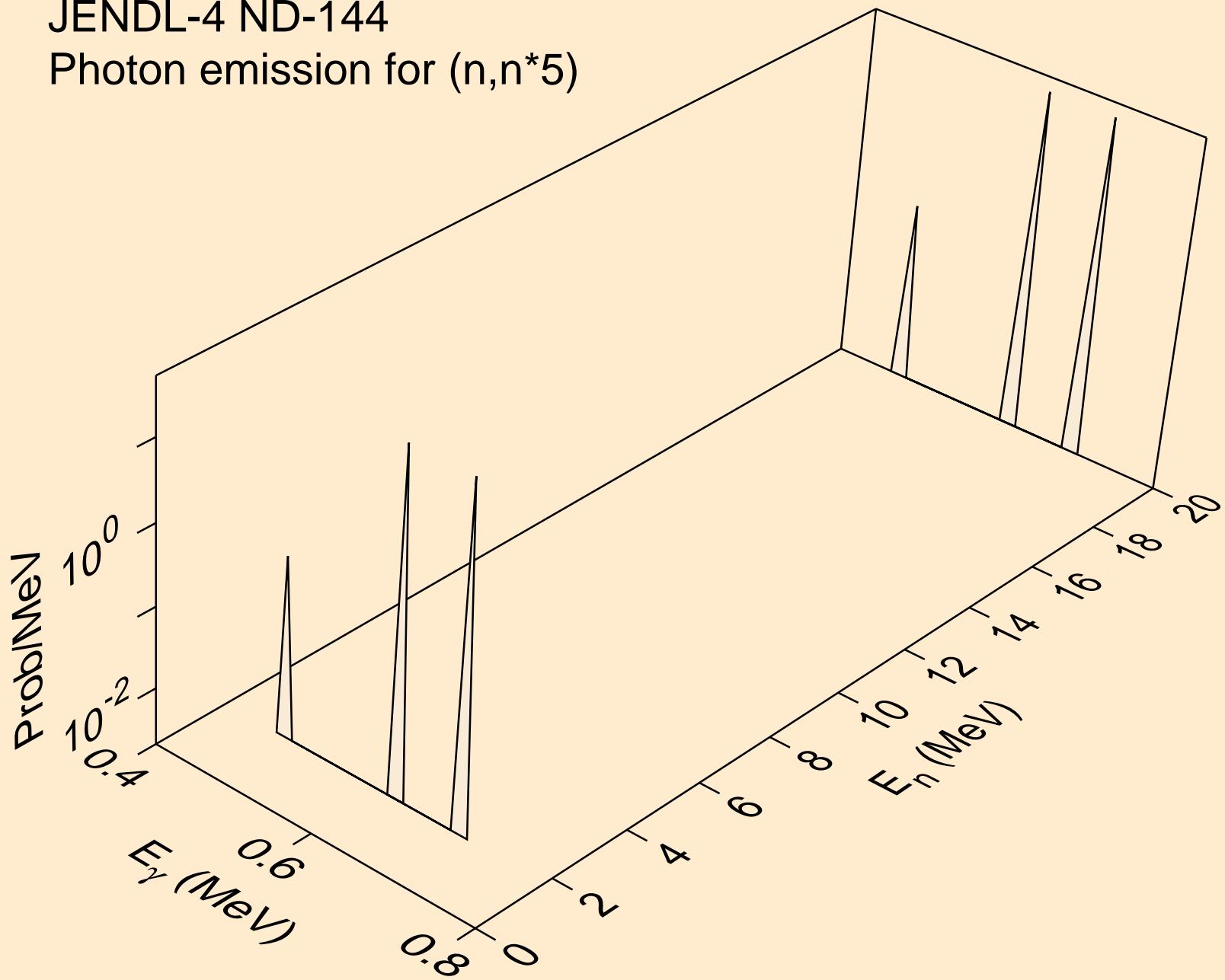
JENDL-4 ND-144  
Photon emission for (n,n\*3)



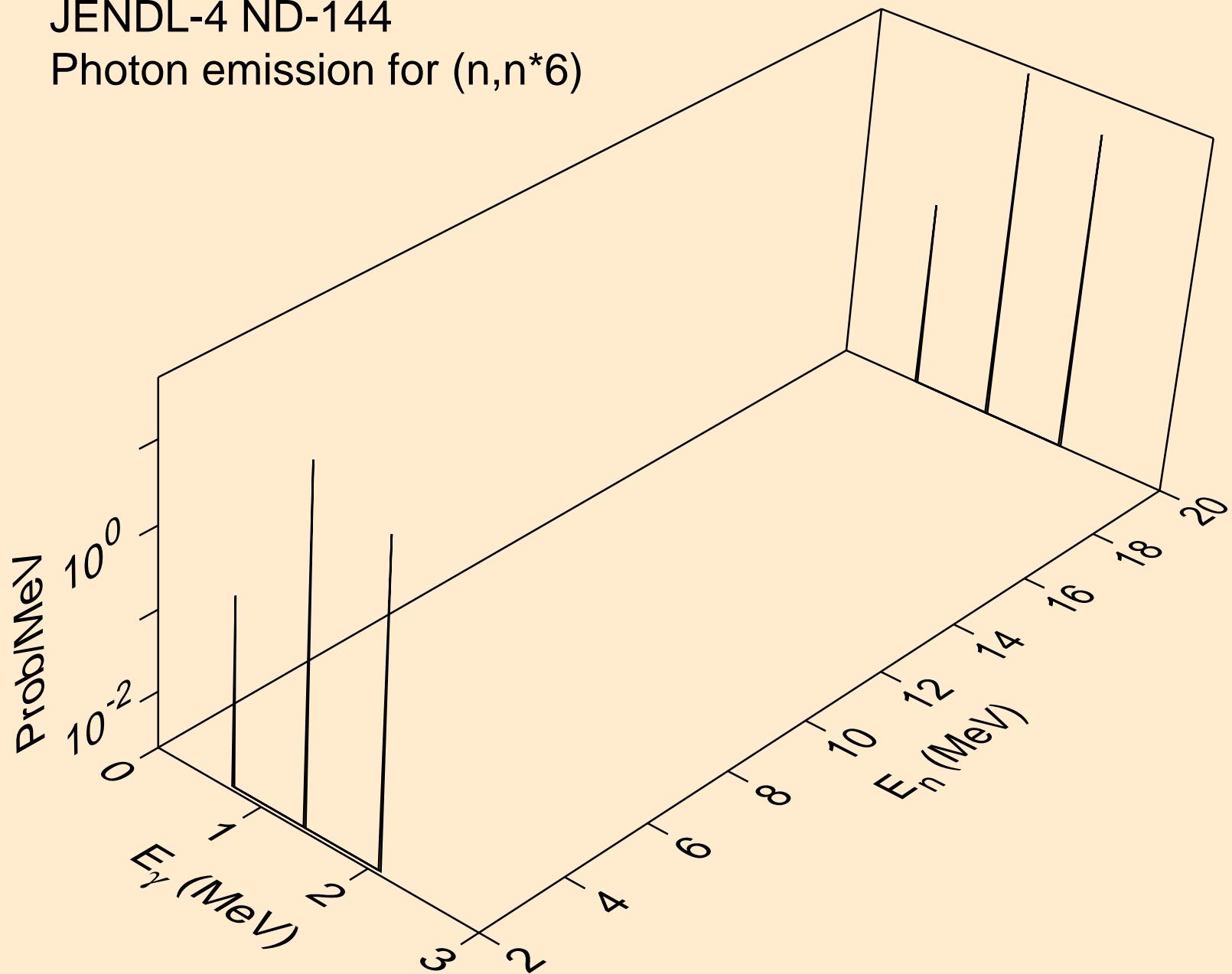
JENDL-4 ND-144  
Photon emission for ( $n, n^*4$ )



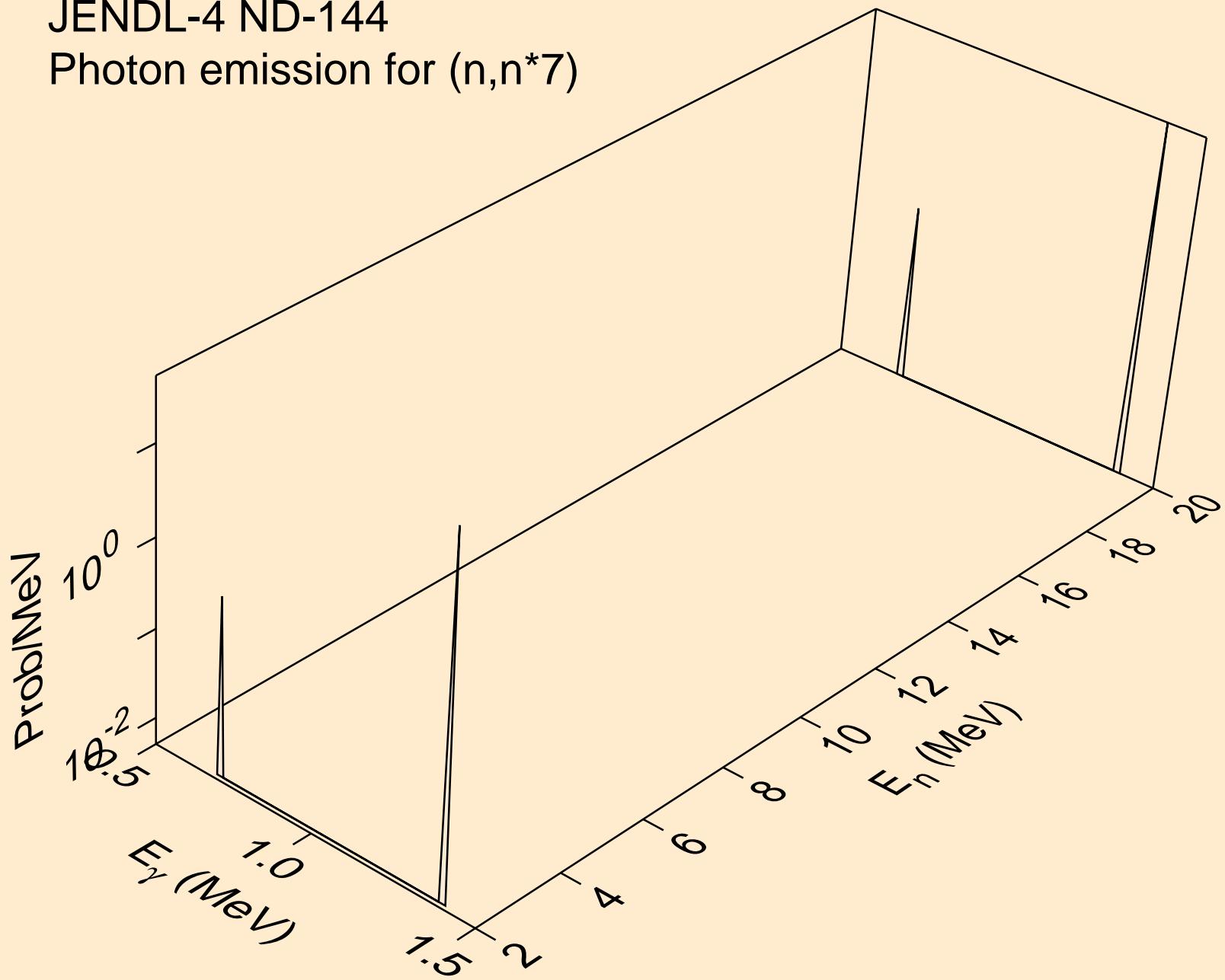
JENDL-4 ND-144  
Photon emission for (n,n\*5)



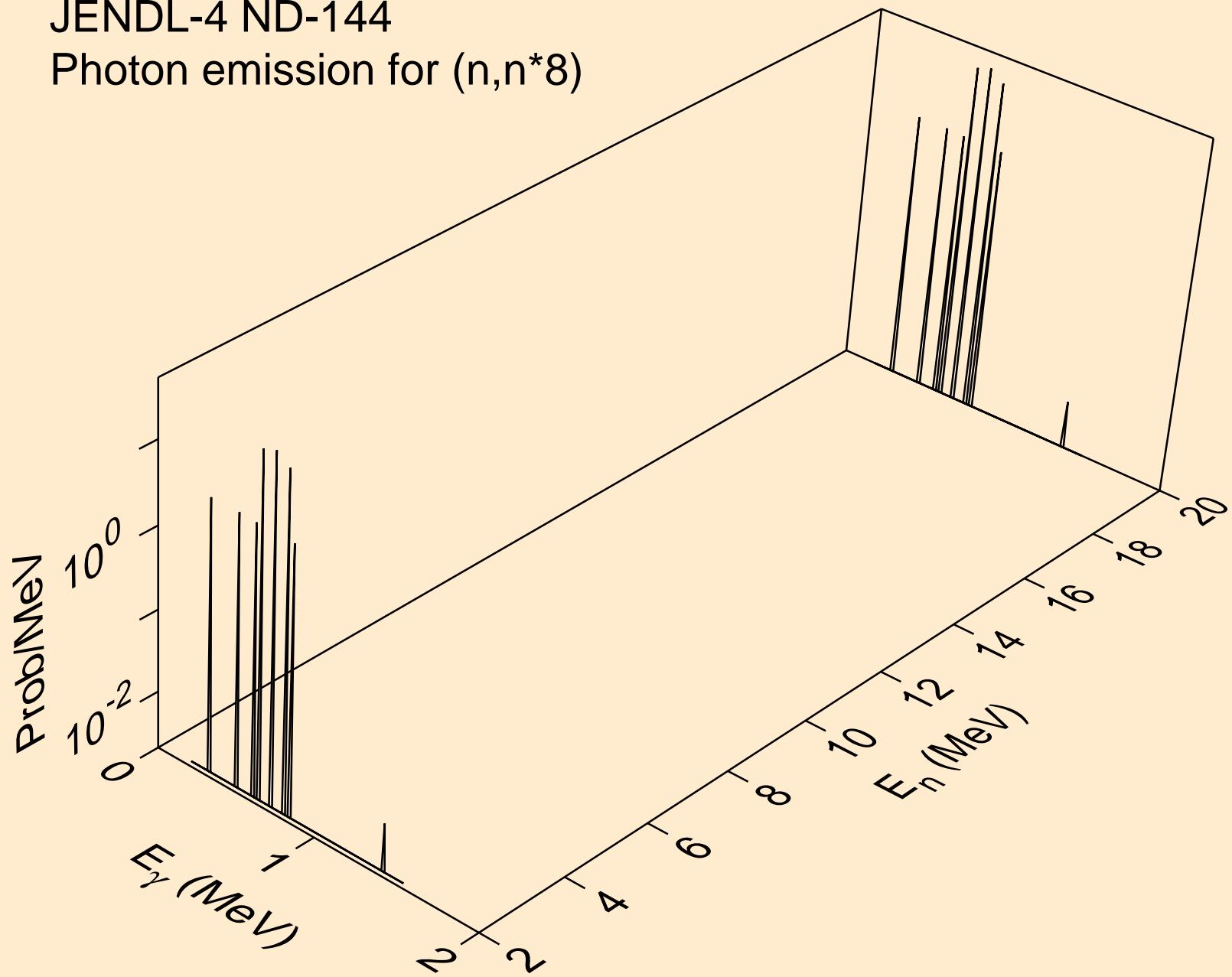
JENDL-4 ND-144  
Photon emission for (n,n\*6)



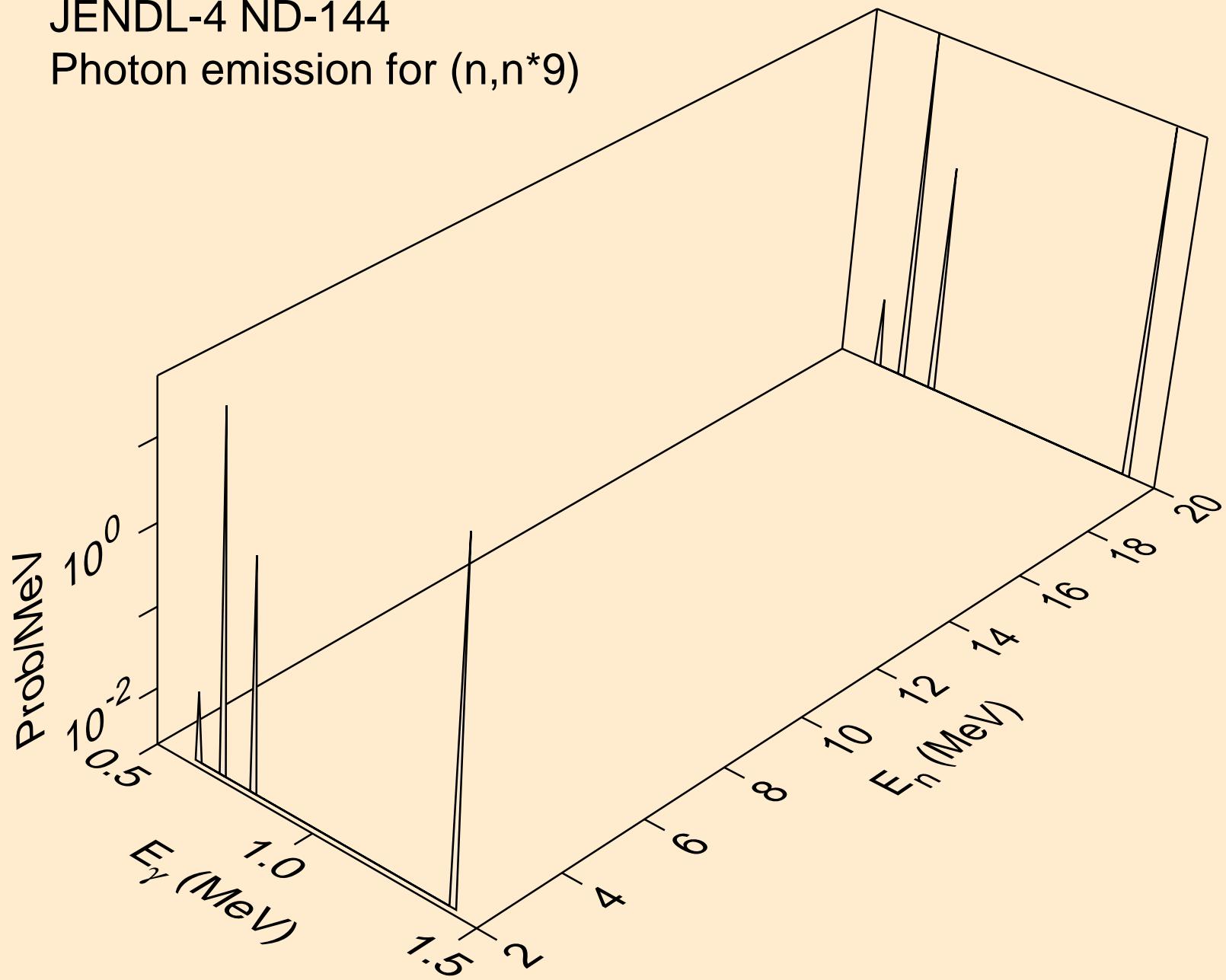
JENDL-4 ND-144  
Photon emission for ( $n, n^* 7$ )



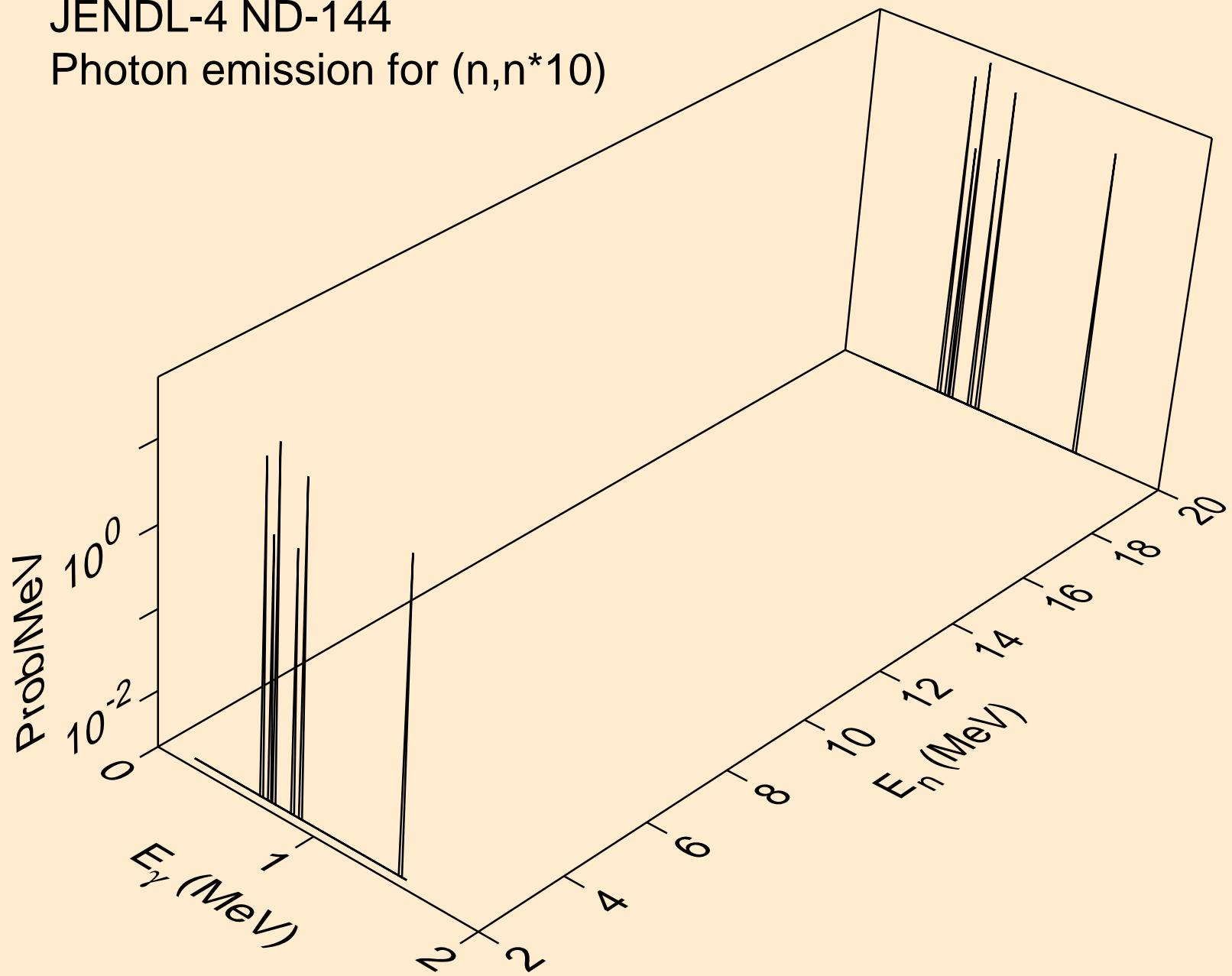
JENDL-4 ND-144  
Photon emission for (n,n\*8)



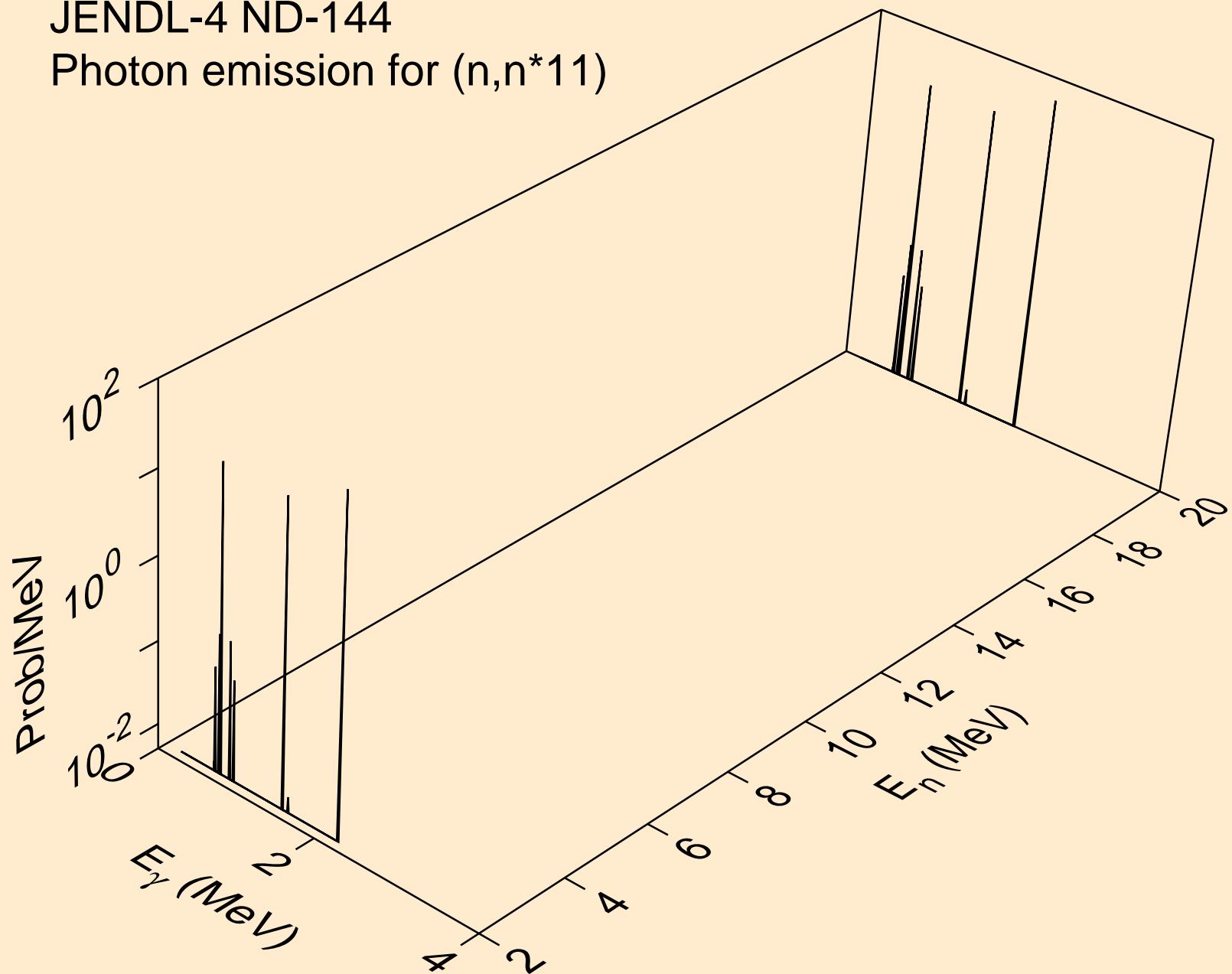
JENDL-4 ND-144  
Photon emission for (n,n\*9)



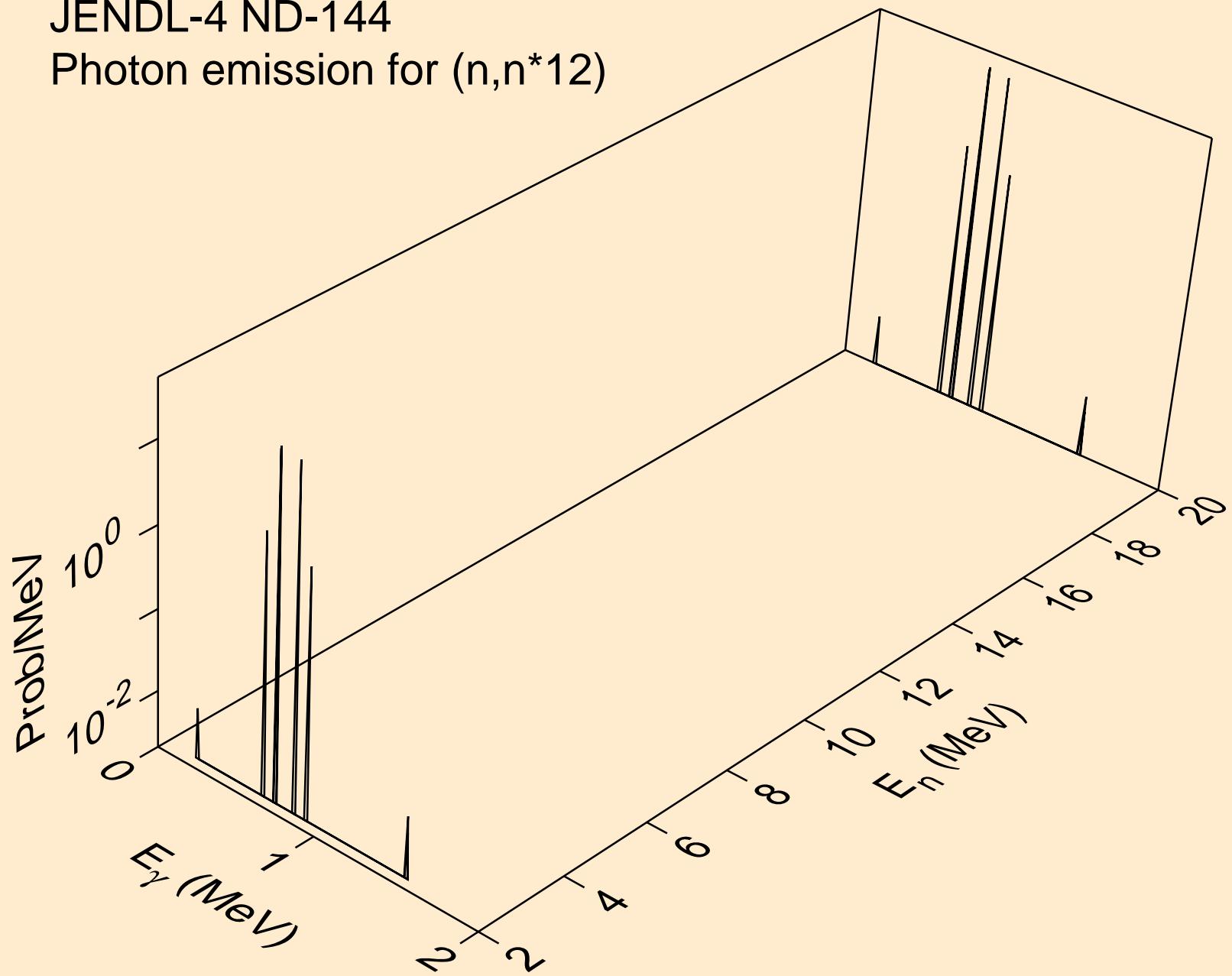
JENDL-4 ND-144  
Photon emission for (n,n\*10)



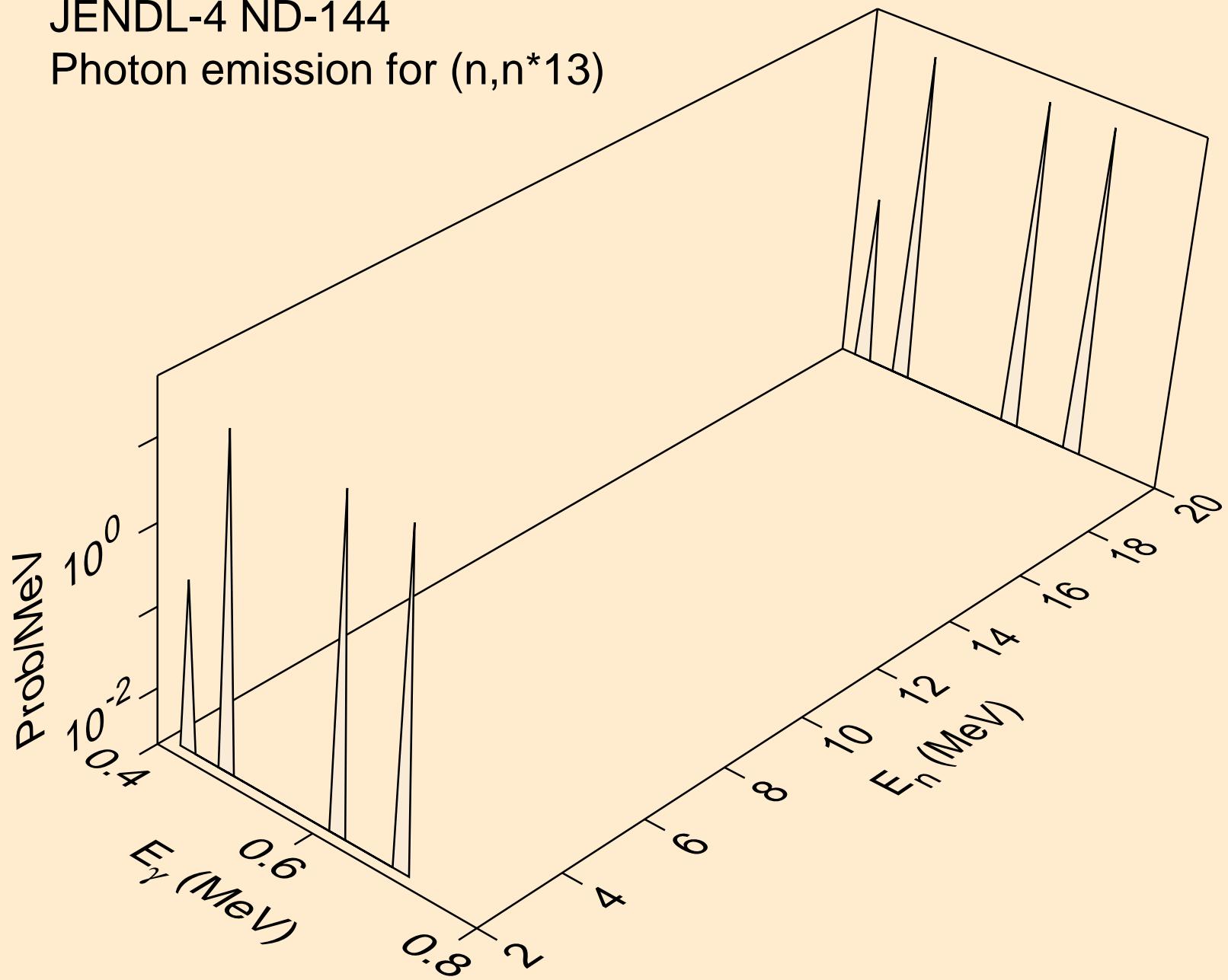
JENDL-4 ND-144  
Photon emission for (n,n\*11)



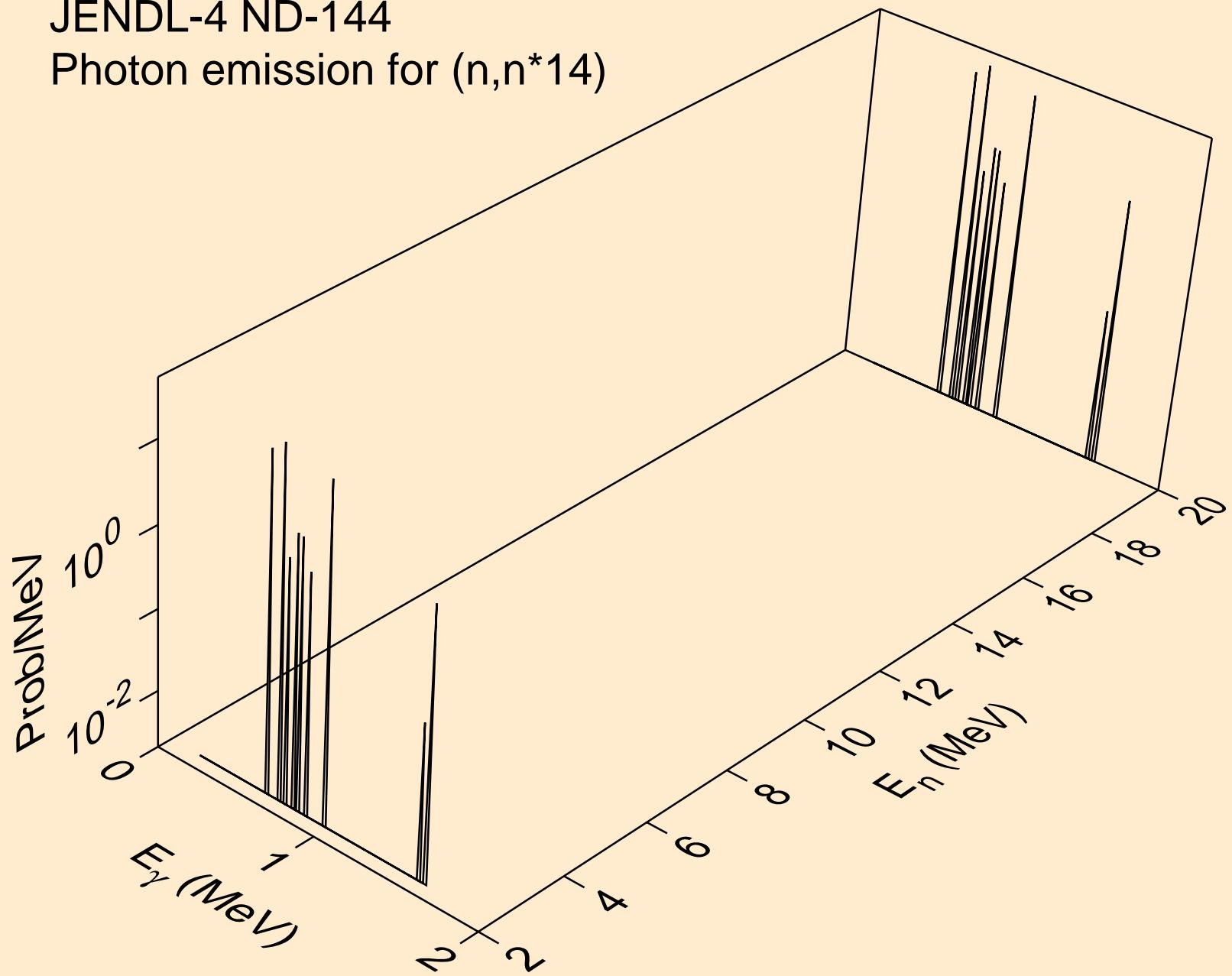
JENDL-4 ND-144  
Photon emission for  $(n,n^*12)$



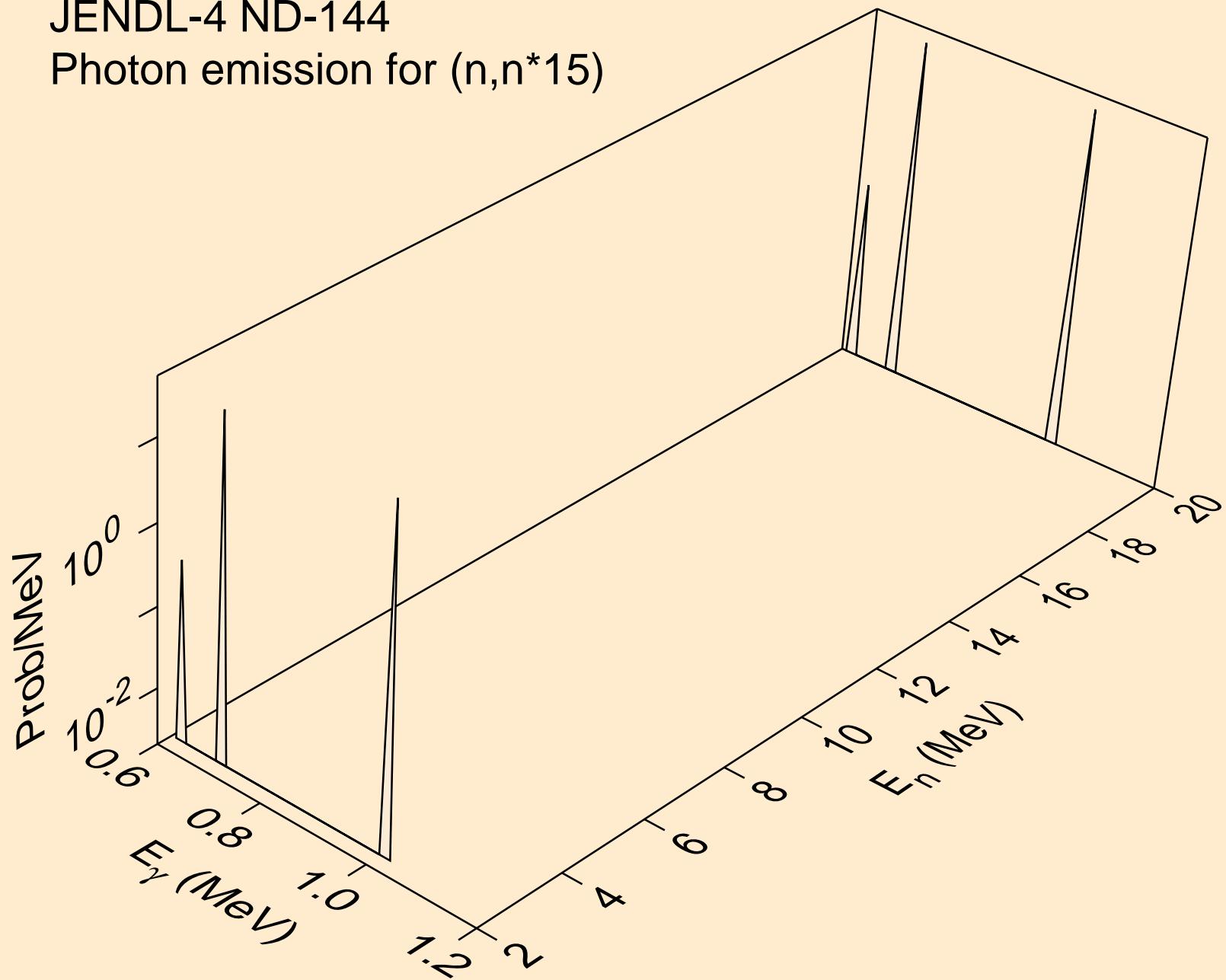
JENDL-4 ND-144  
Photon emission for ( $n, n^* 13$ )



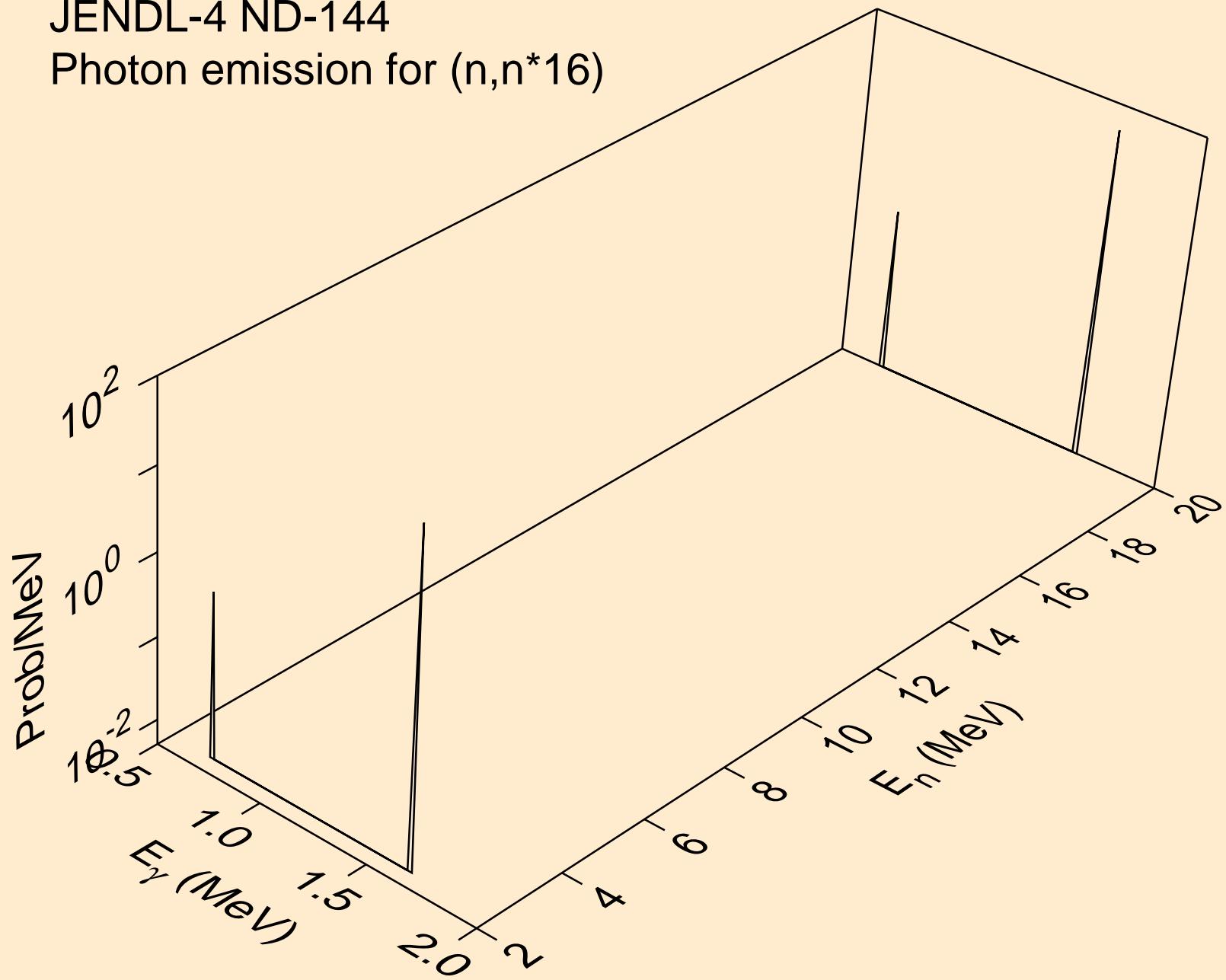
JENDL-4 ND-144  
Photon emission for ( $n, n^* 14$ )



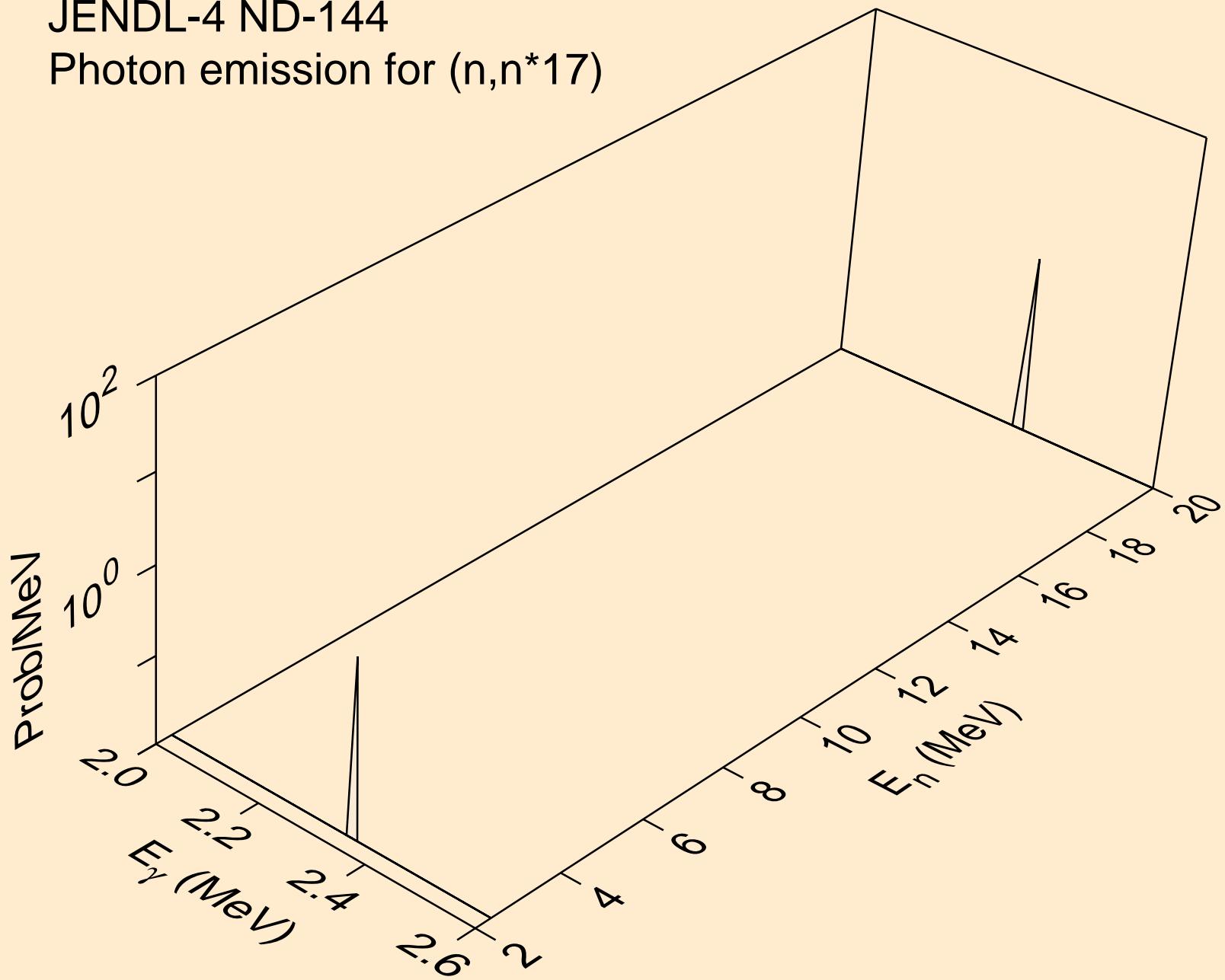
JENDL-4 ND-144  
Photon emission for ( $n, n^* 15$ )



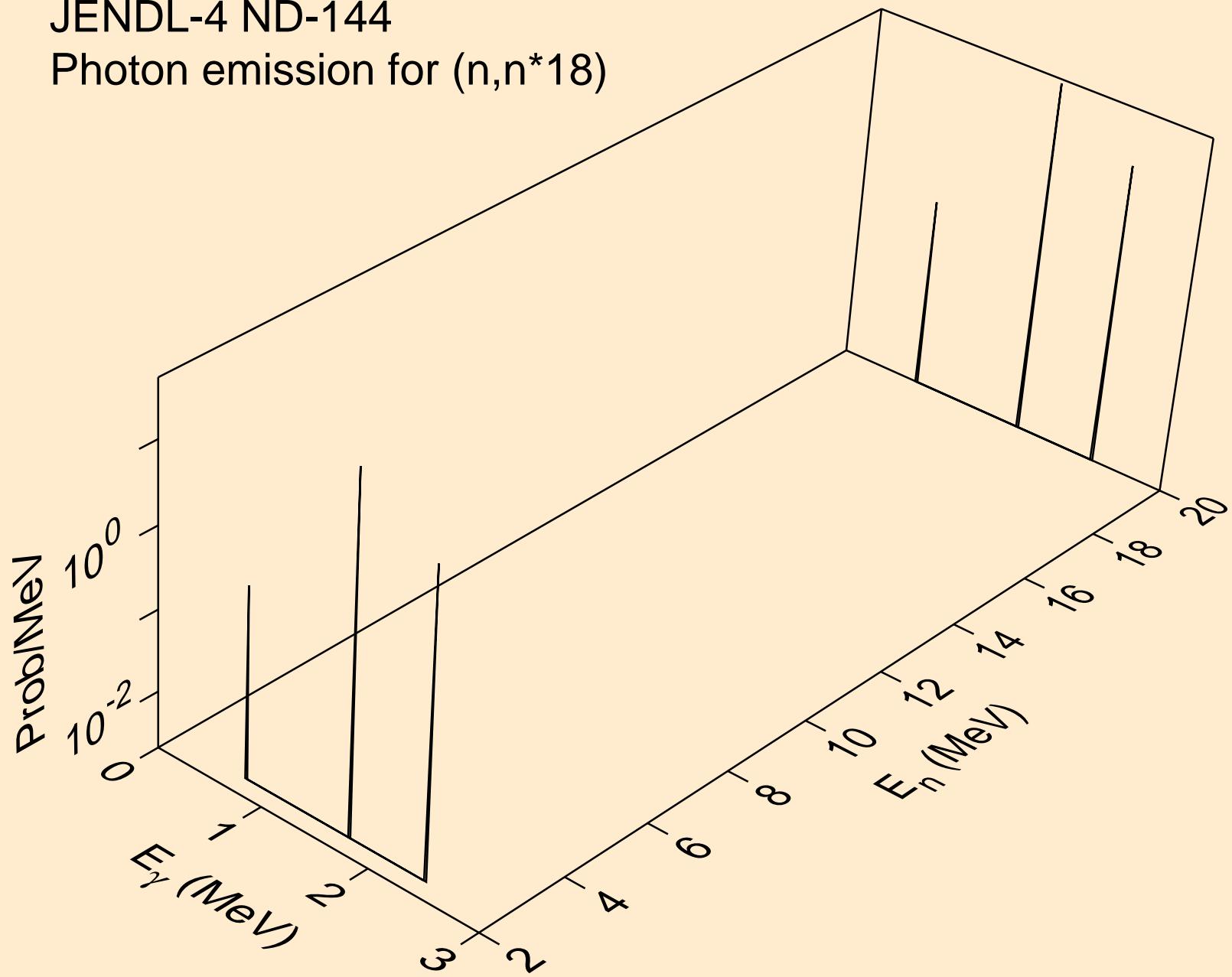
JENDL-4 ND-144  
Photon emission for ( $n, n^* 16$ )



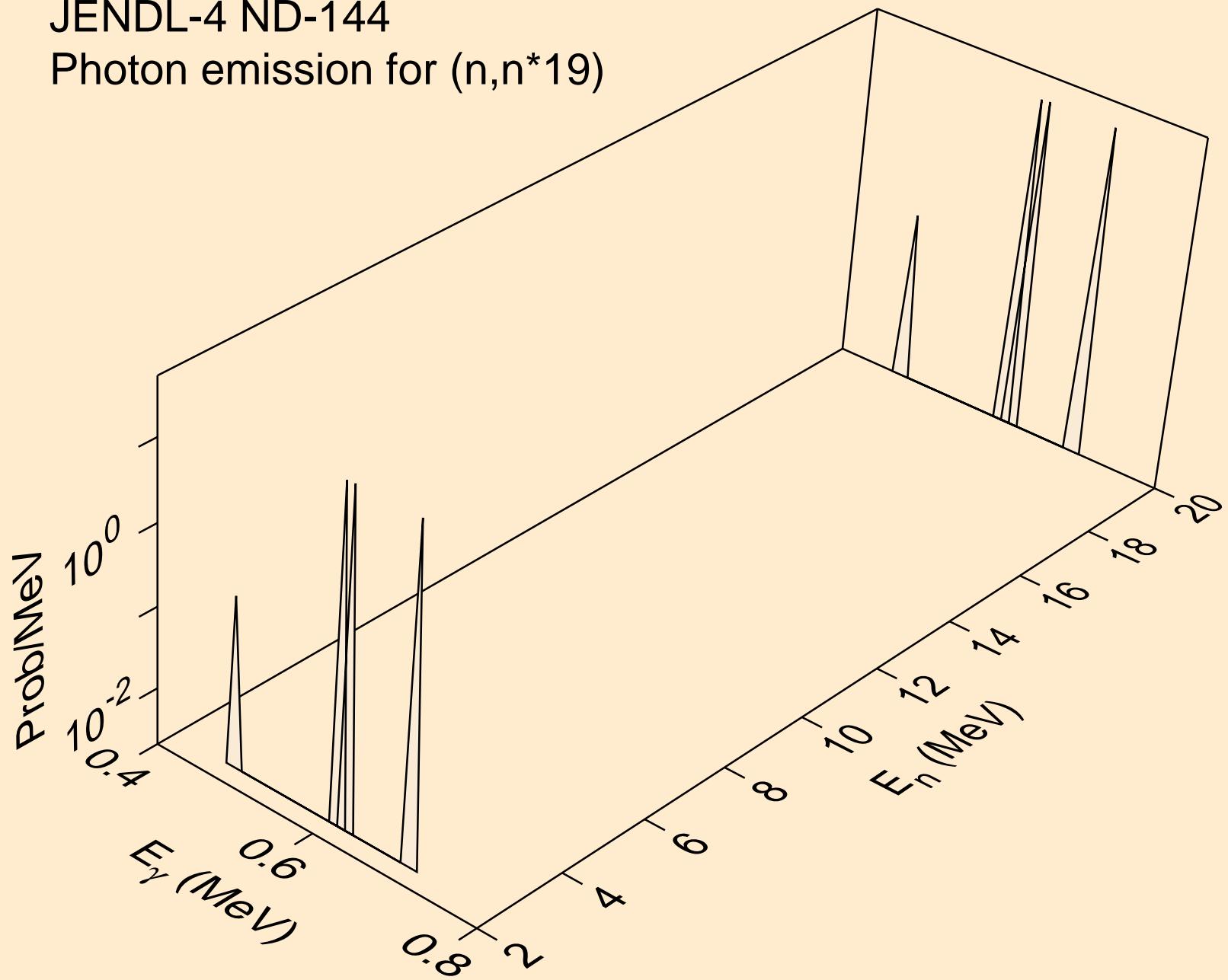
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Photon emission for  $(n,n^*17)$



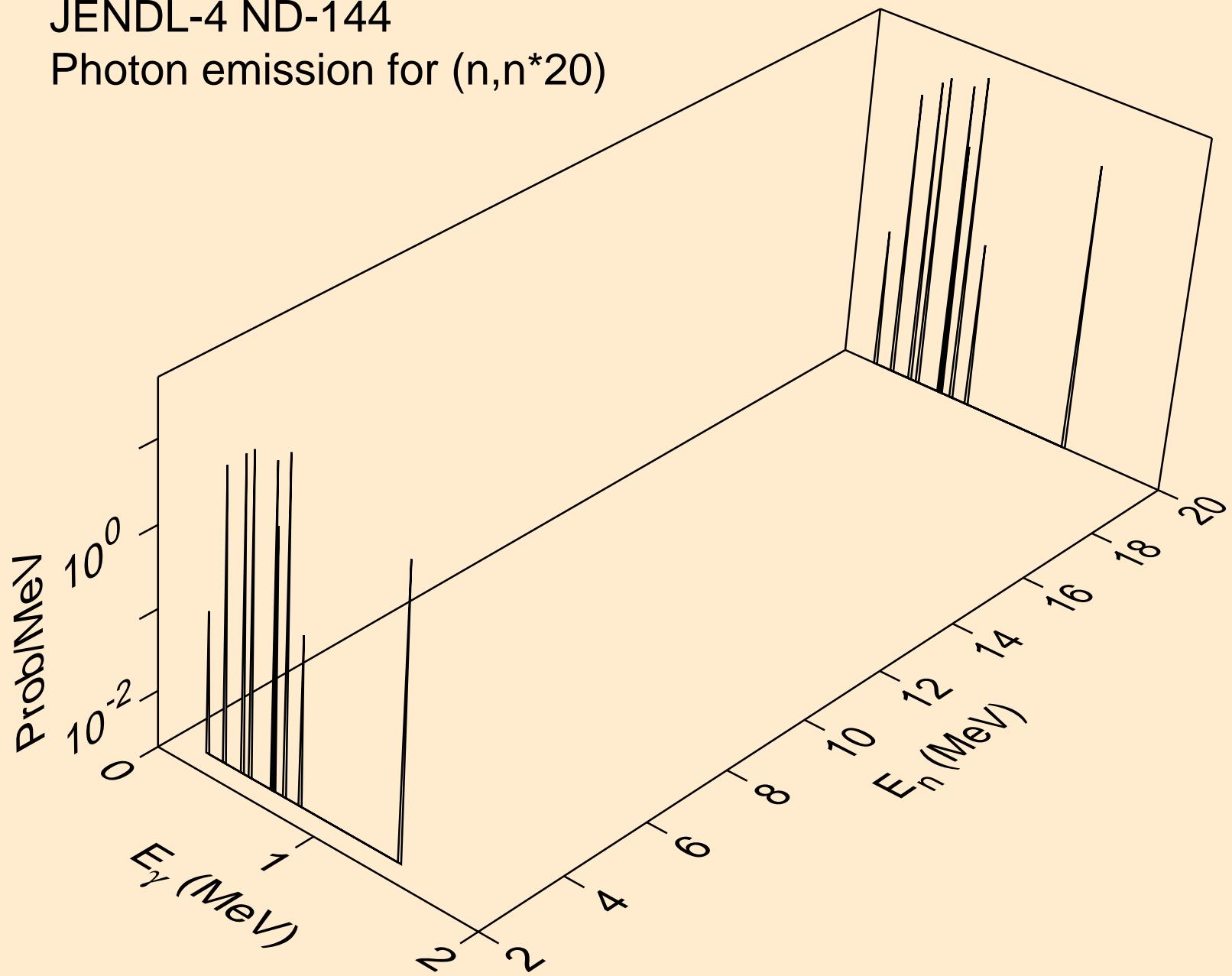
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Photon emission for ( $n, n^* 18$ )



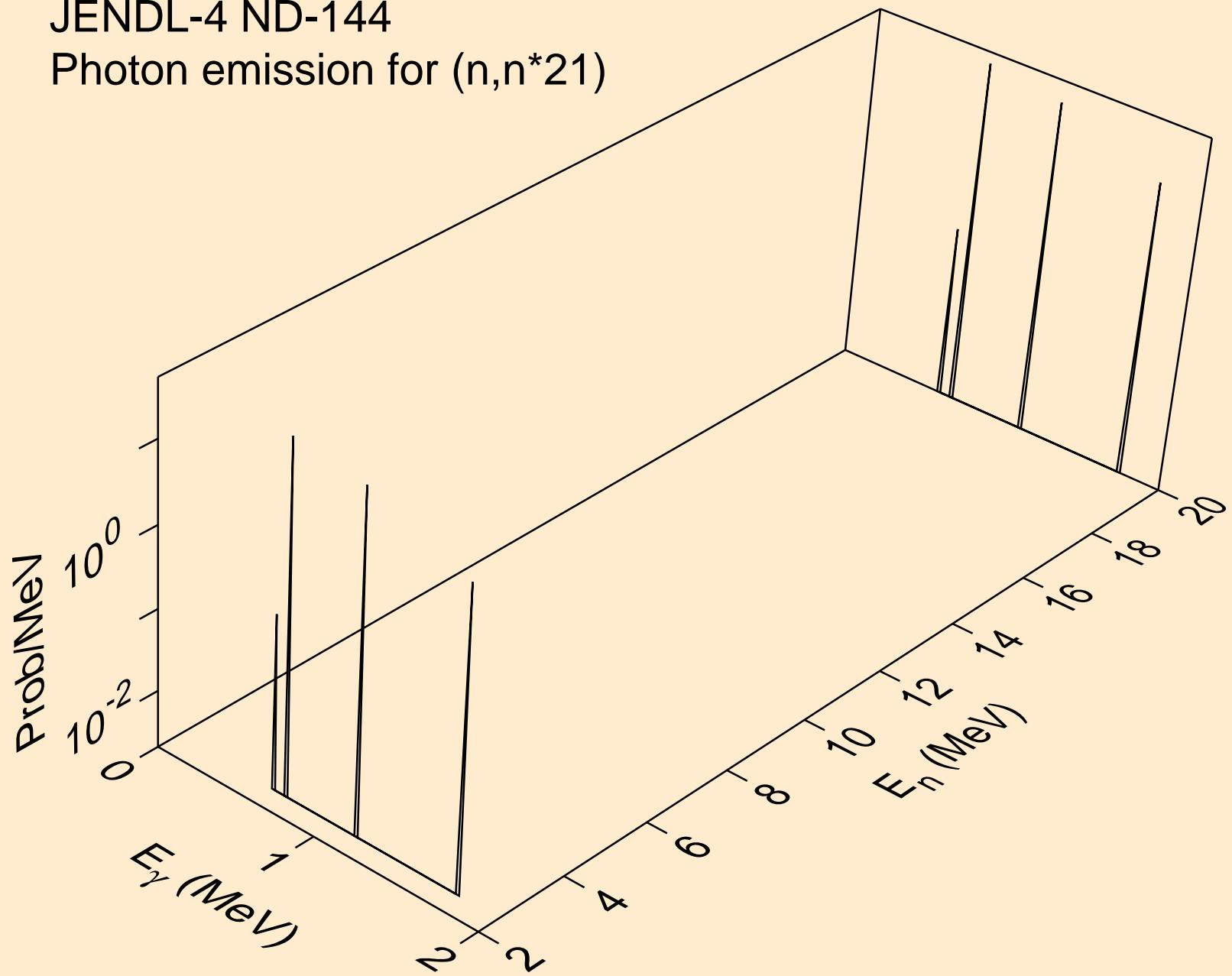
JENDL-4 ND-144  
Photon emission for ( $n, n^* 19$ )



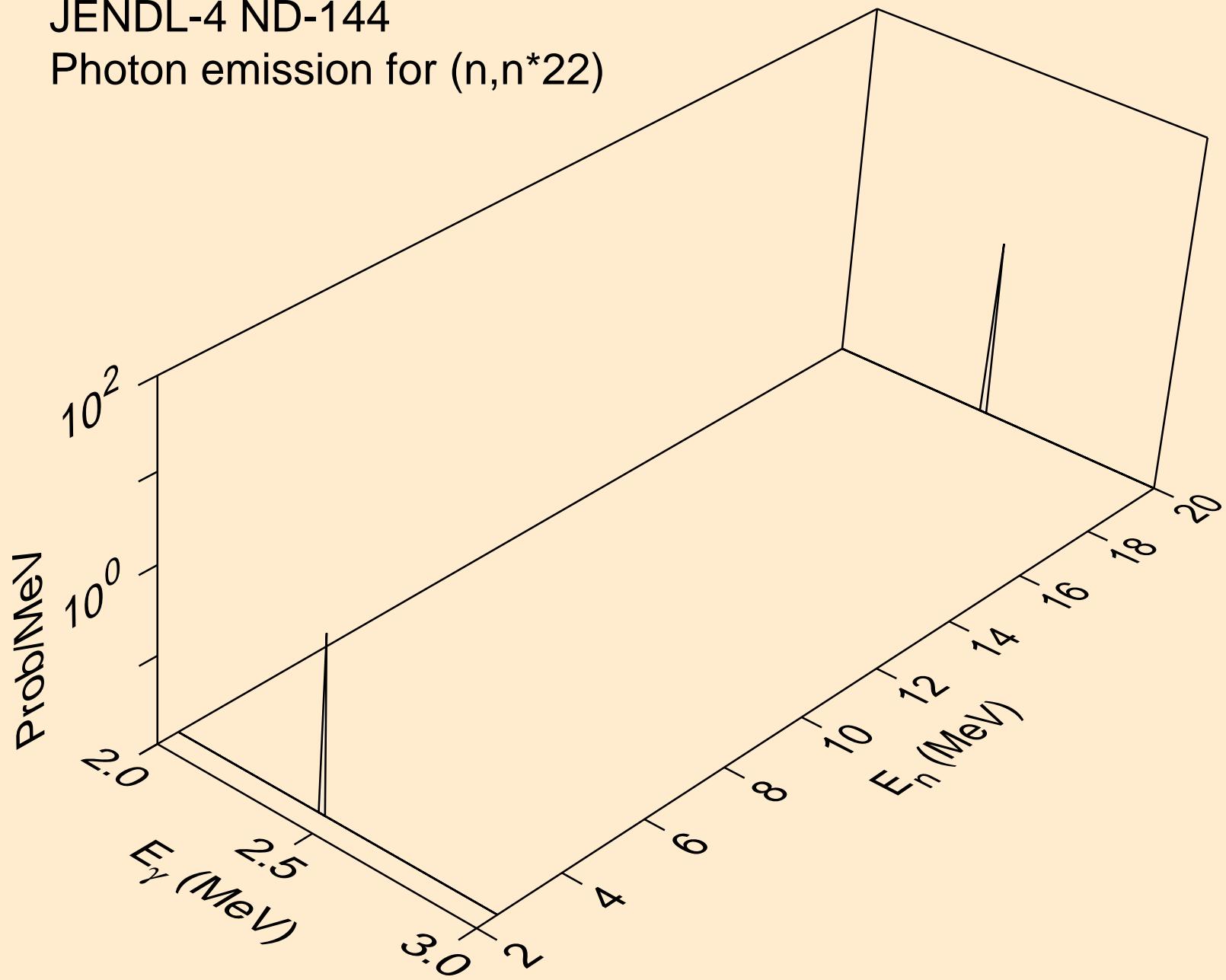
JENDL-4 ND-144  
Photon emission for ( $n, n^*$ )20



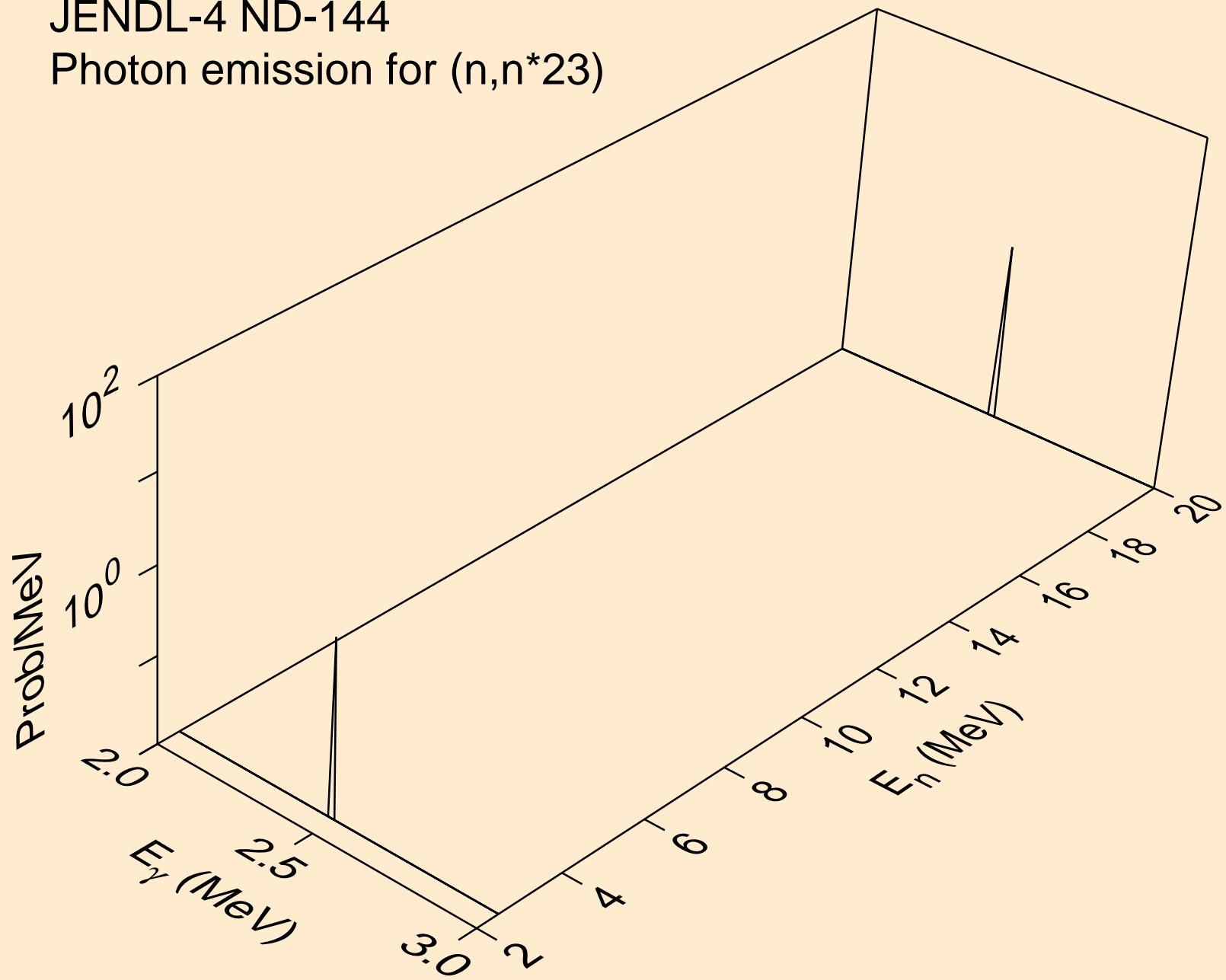
JENDL-4 ND-144  
Photon emission for ( $n, n^* 21$ )



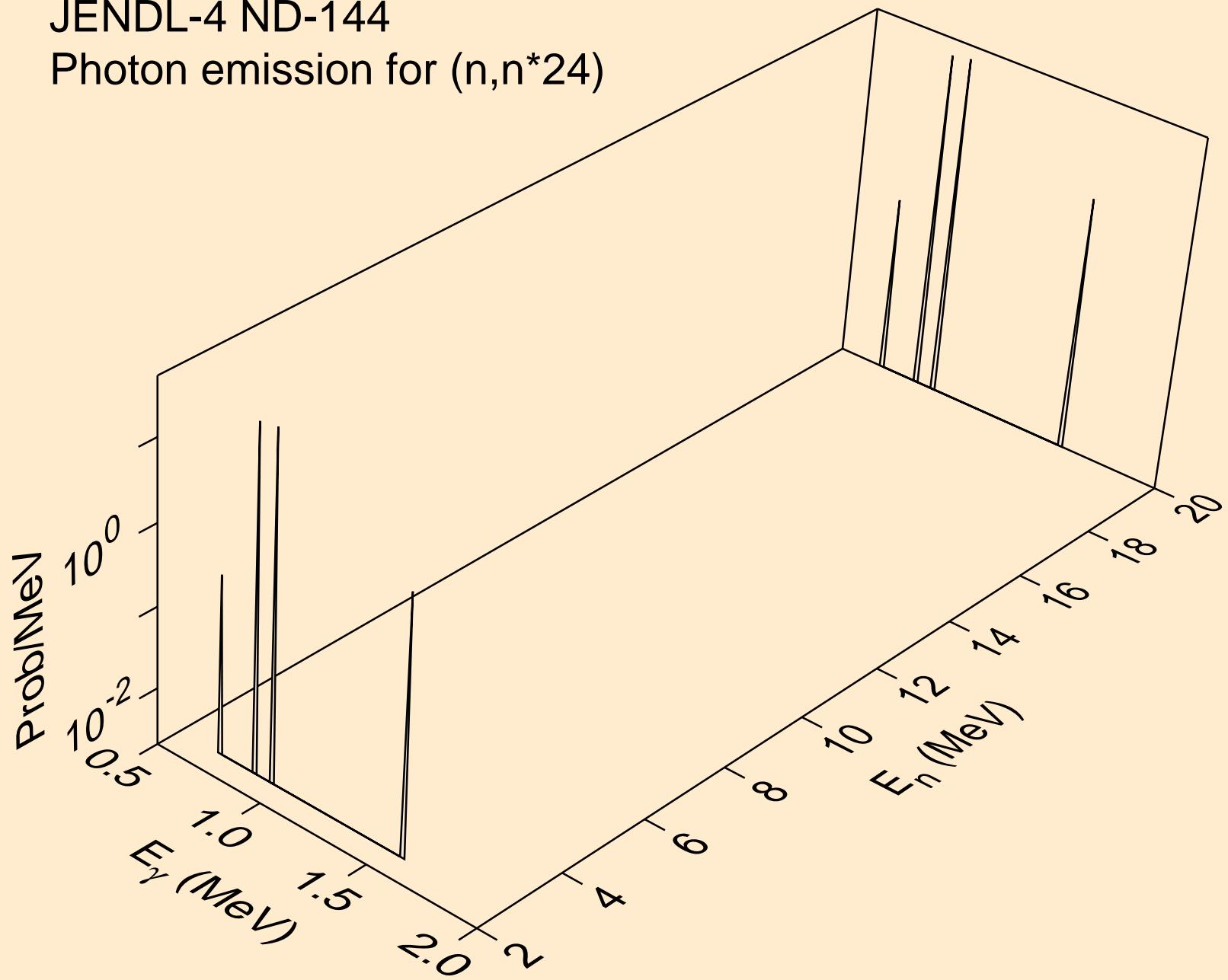
JENDL-4 ND-144  
Photon emission for ( $n, n^*$ )<sup>22</sup>



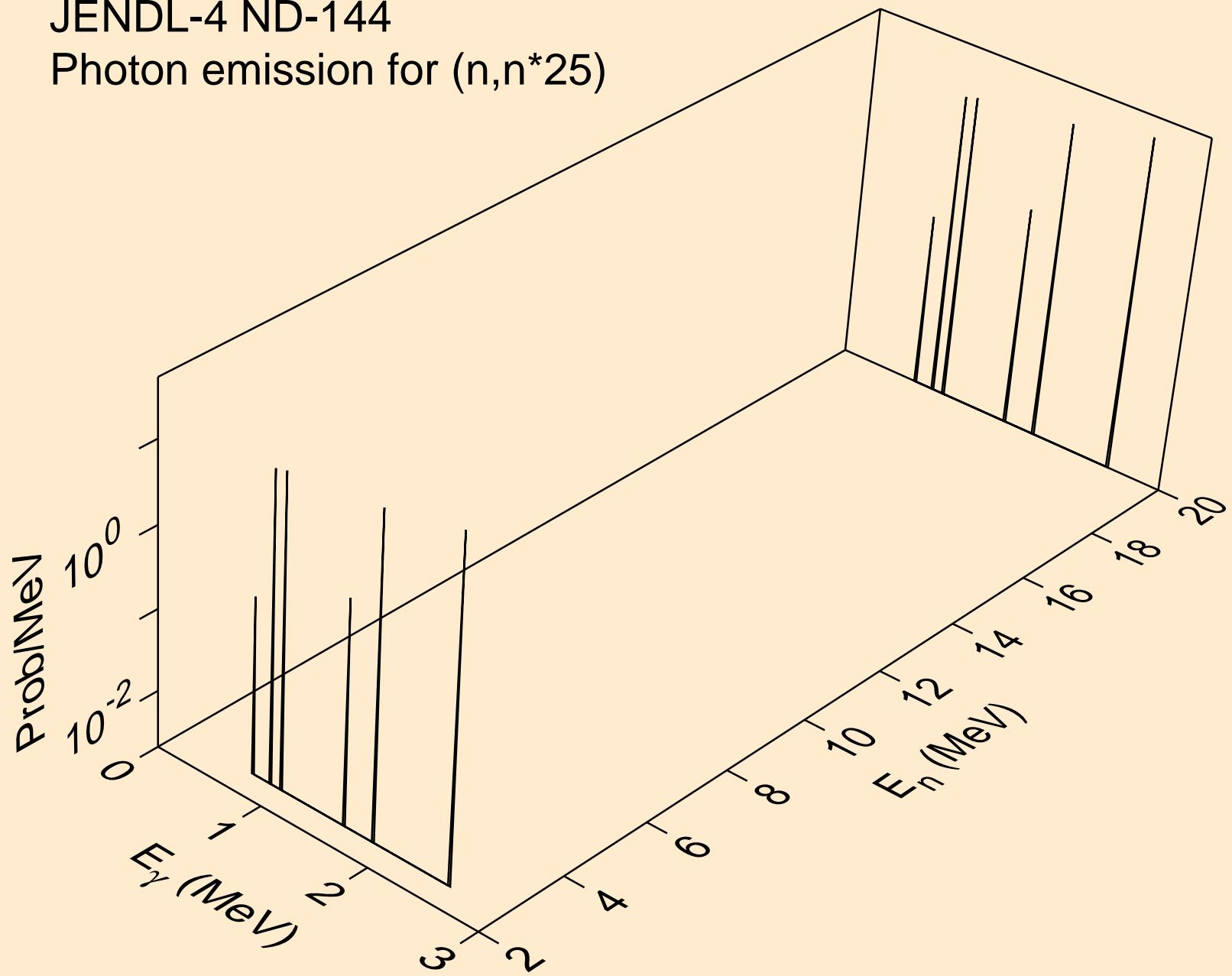
JENDL-4 ND-144  
Photon emission for ( $n, n^* 23$ )



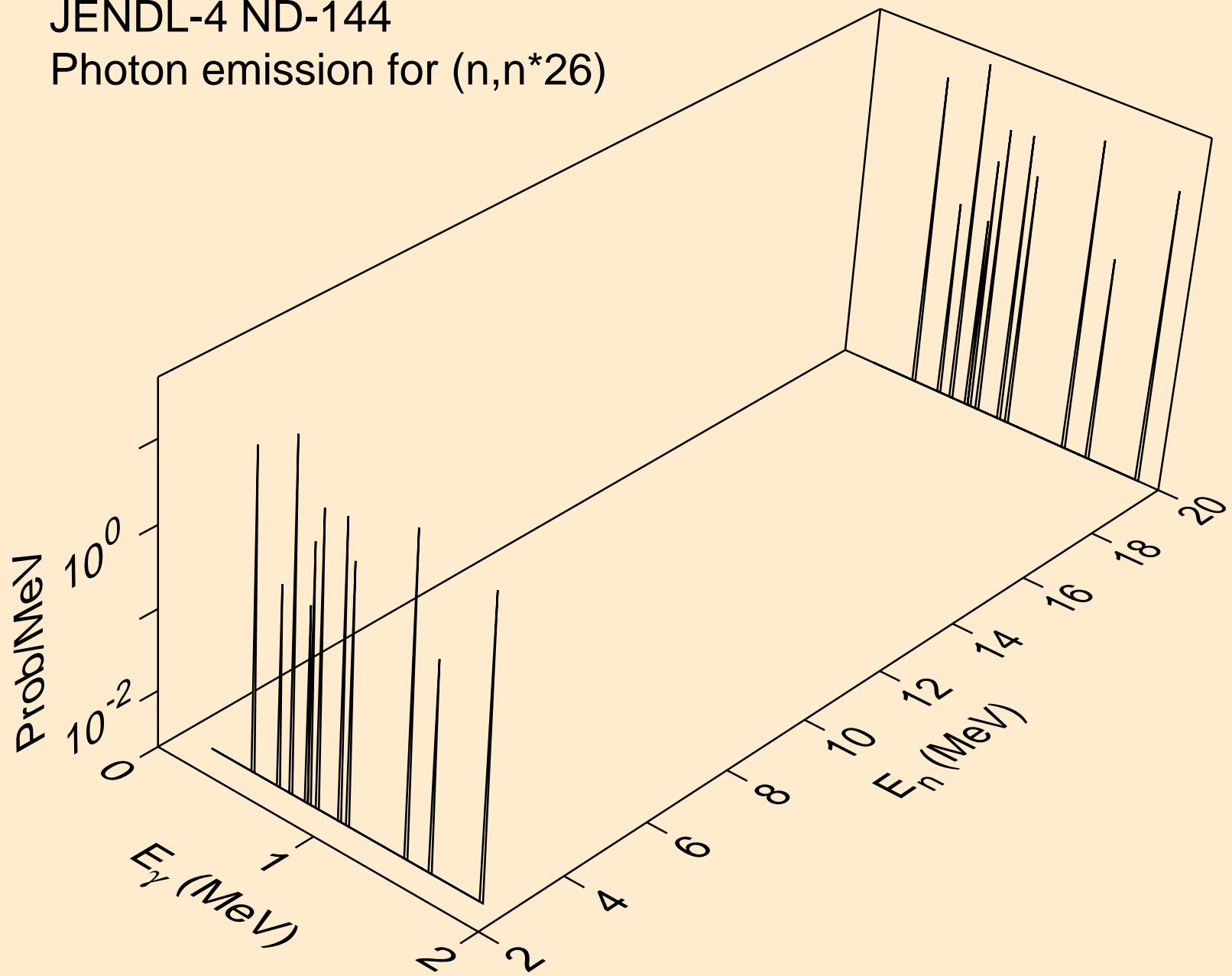
JENDL-4 ND-144  
Photon emission for ( $n, n^* 24$ )



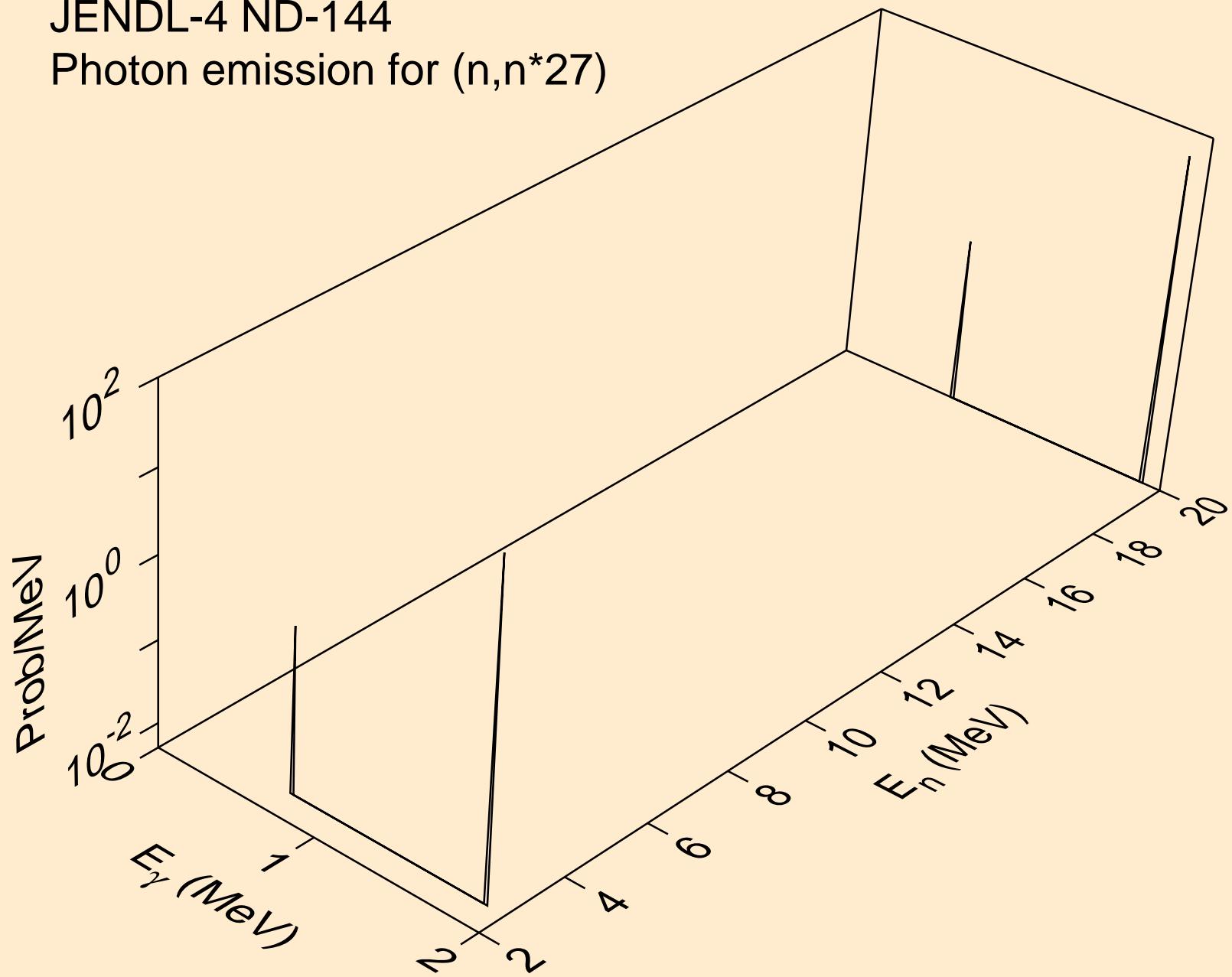
JENDL-4 ND-144  
Photon emission for ( $n, n^* 25$ )



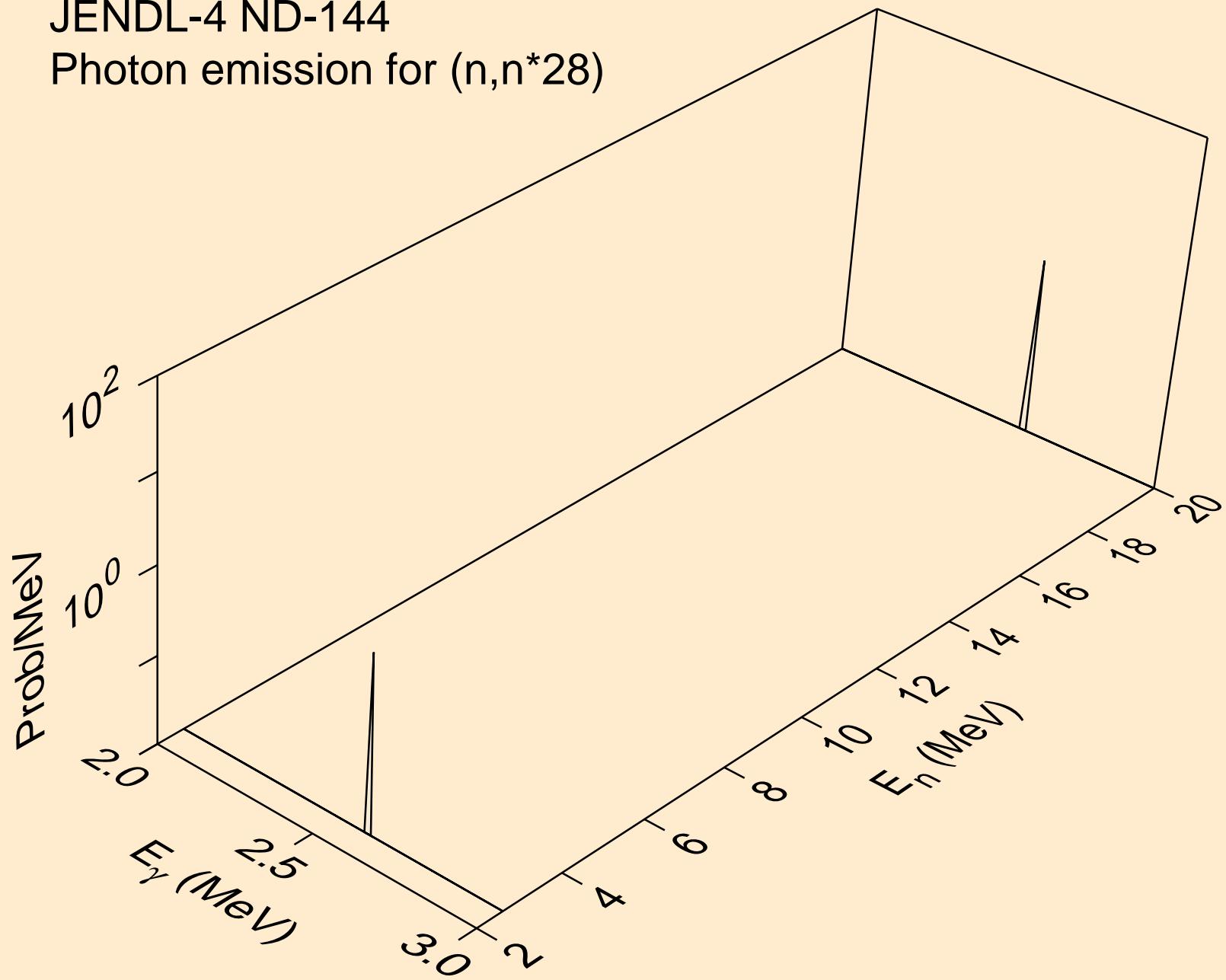
JENDL-4 ND-144  
Photon emission for ( $n, n^* 26$ )



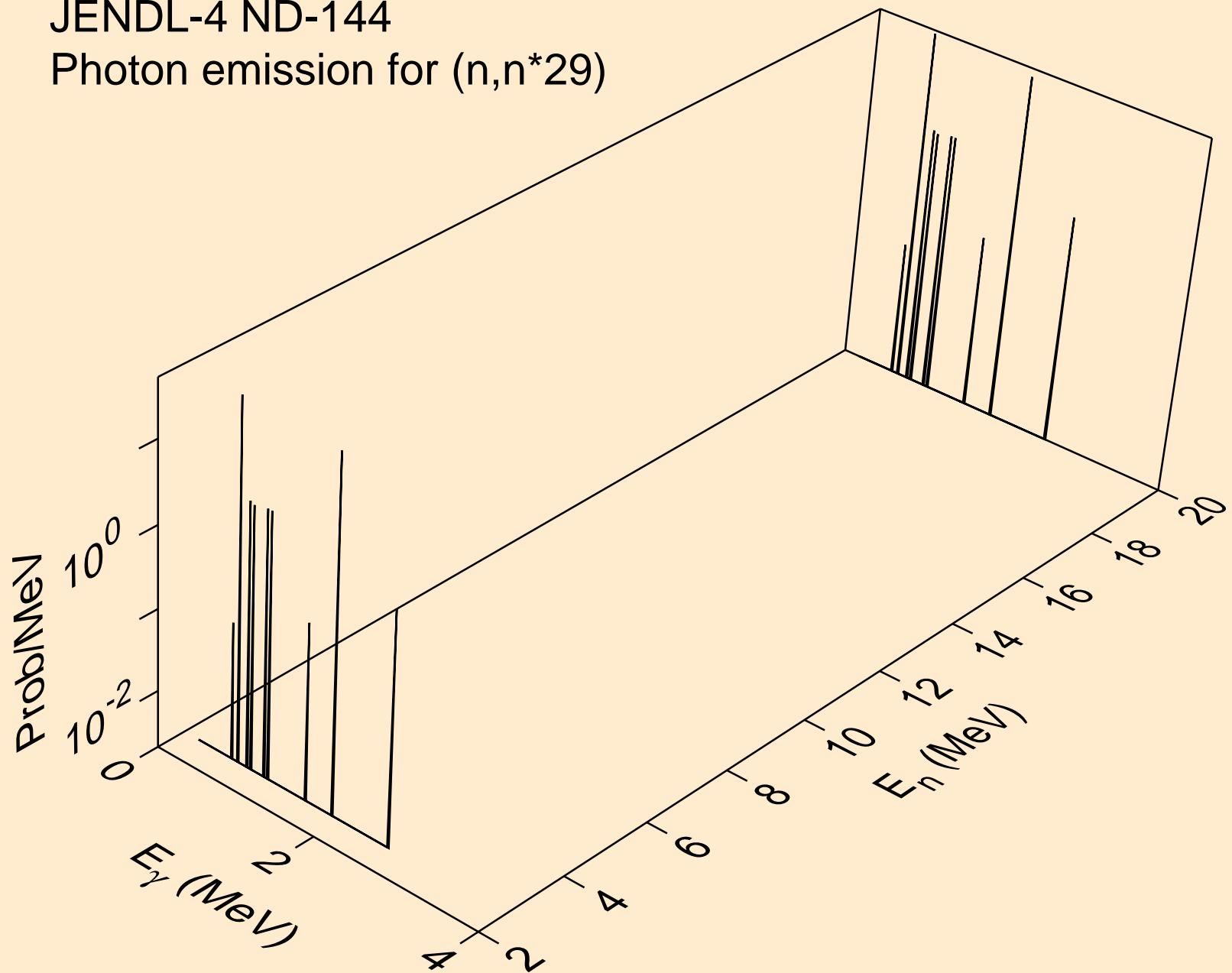
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Photon emission for ( $n, n^* 27$ )



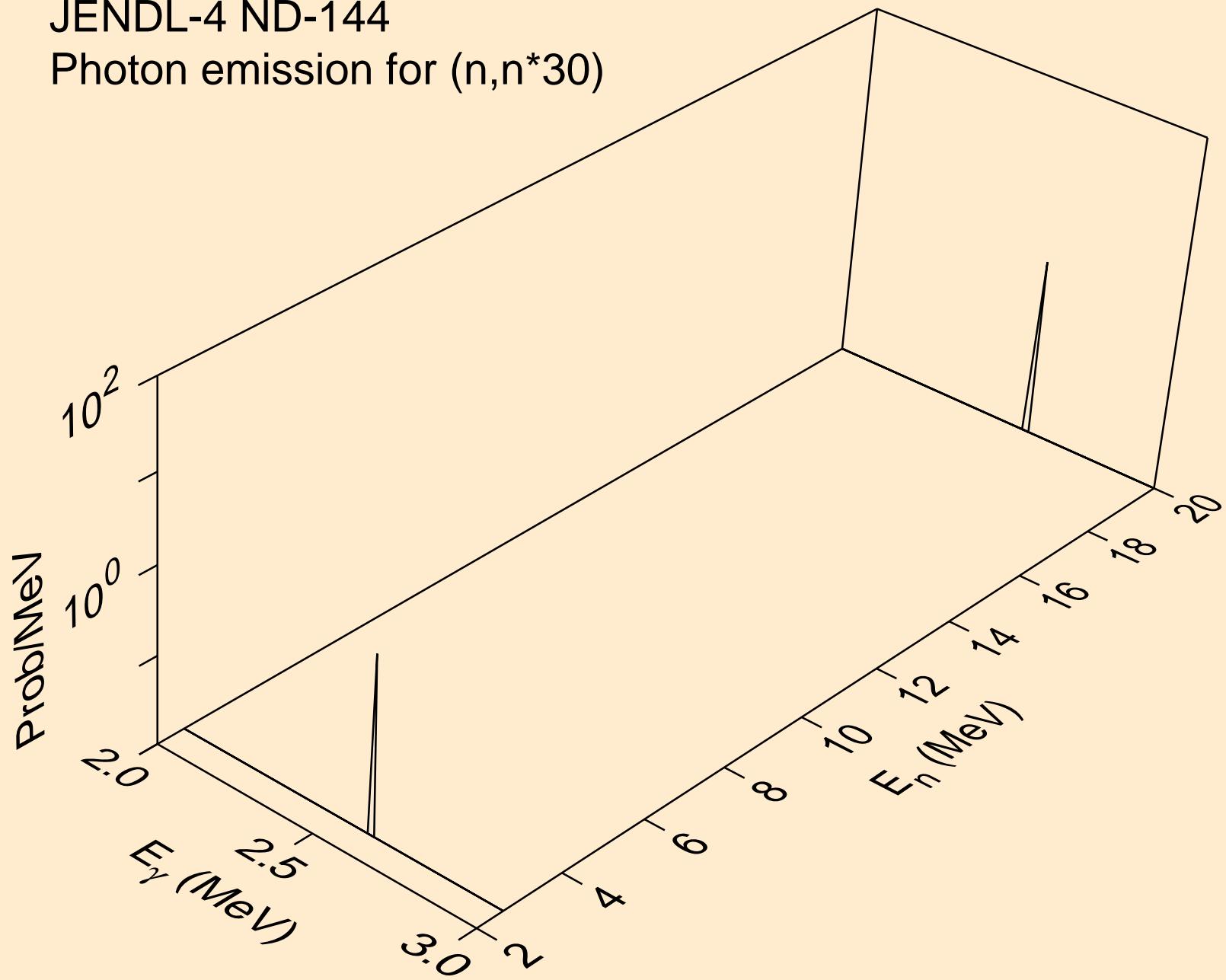
JENDL-4 ND-144  
Photon emission for ( $n, n^*$ )<sup>28</sup>



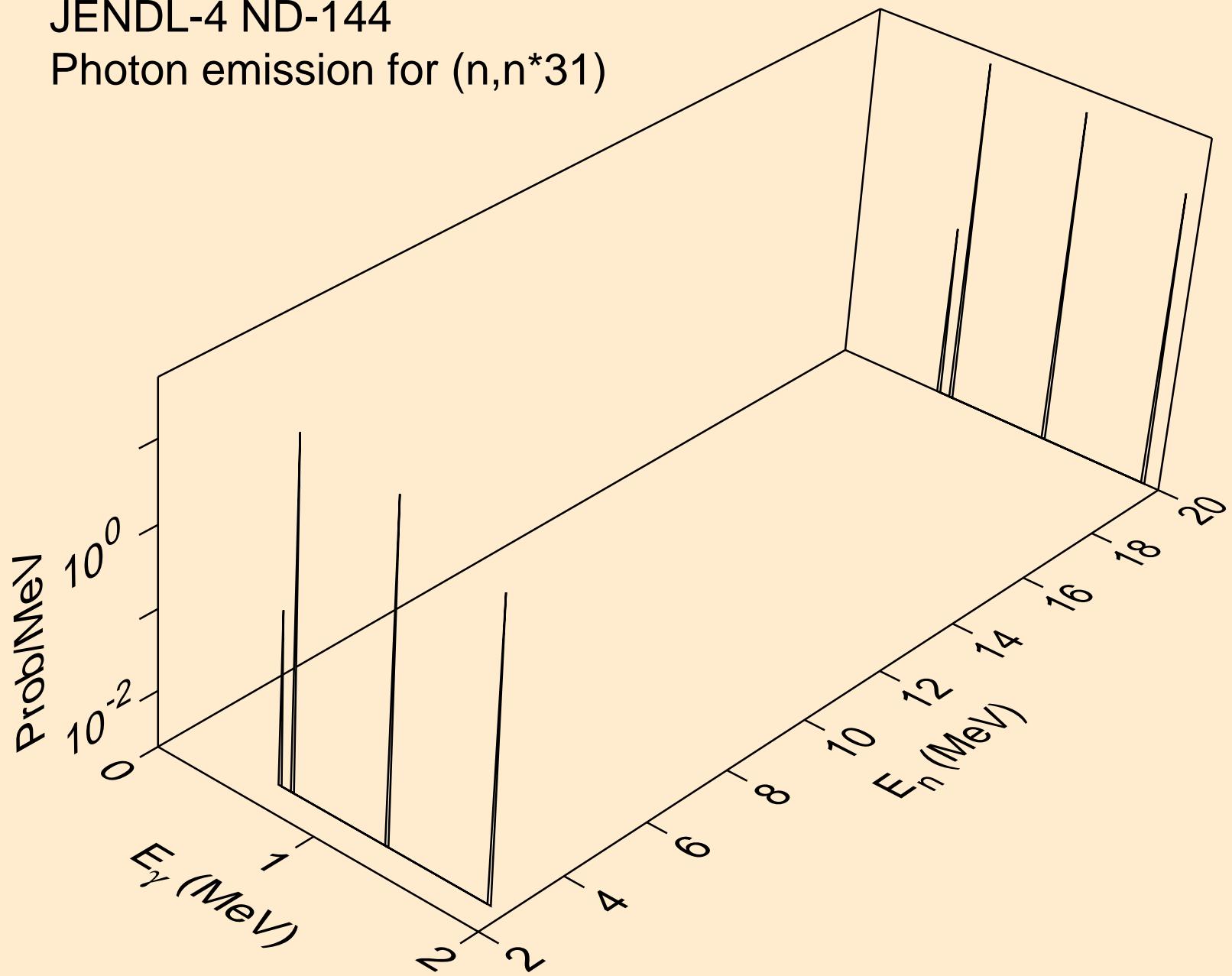
JENDL-4 ND-144  
Photon emission for ( $n, n^* 29$ )



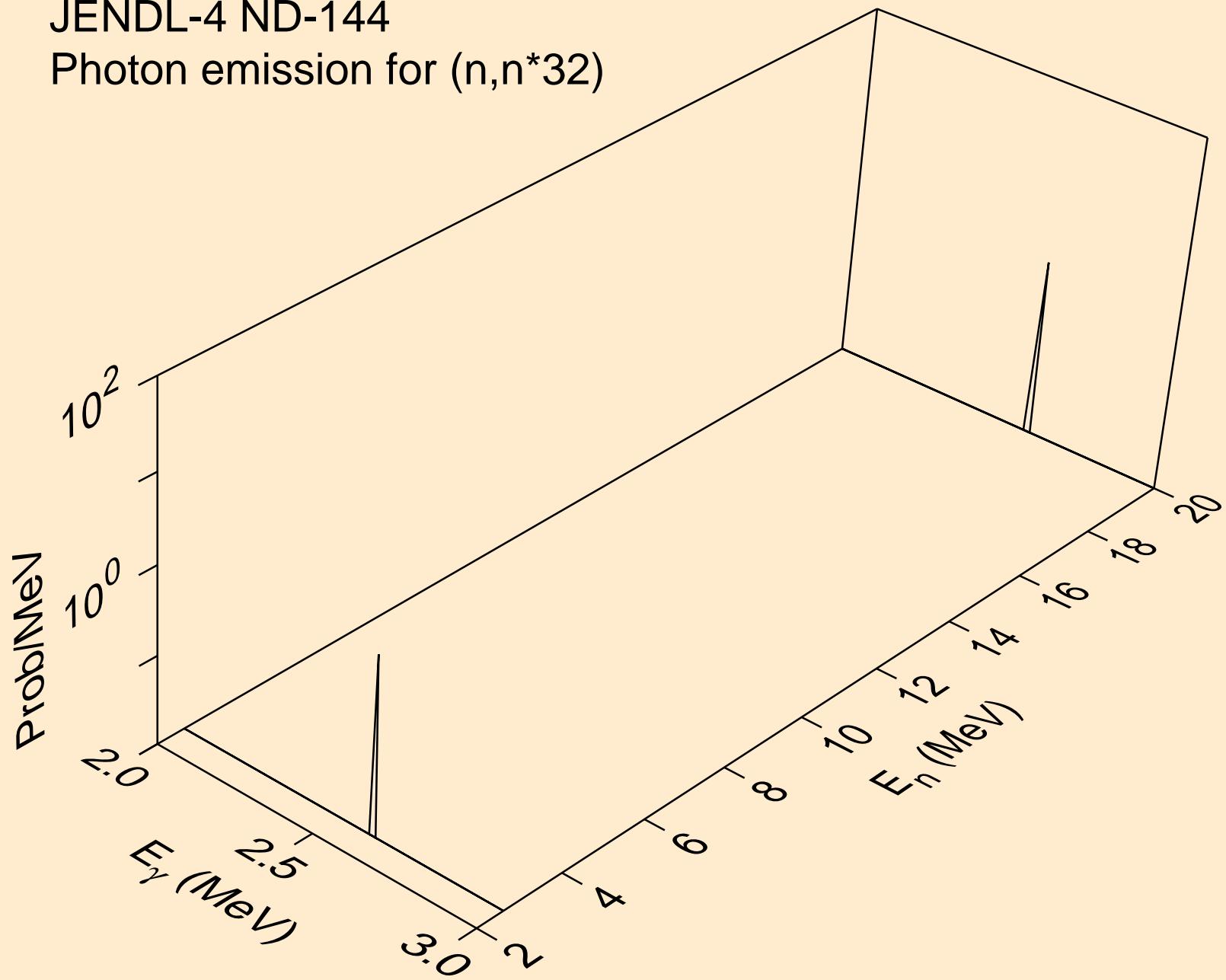
JENDL-4 ND-144  
Photon emission for ( $n, n^*$ )30



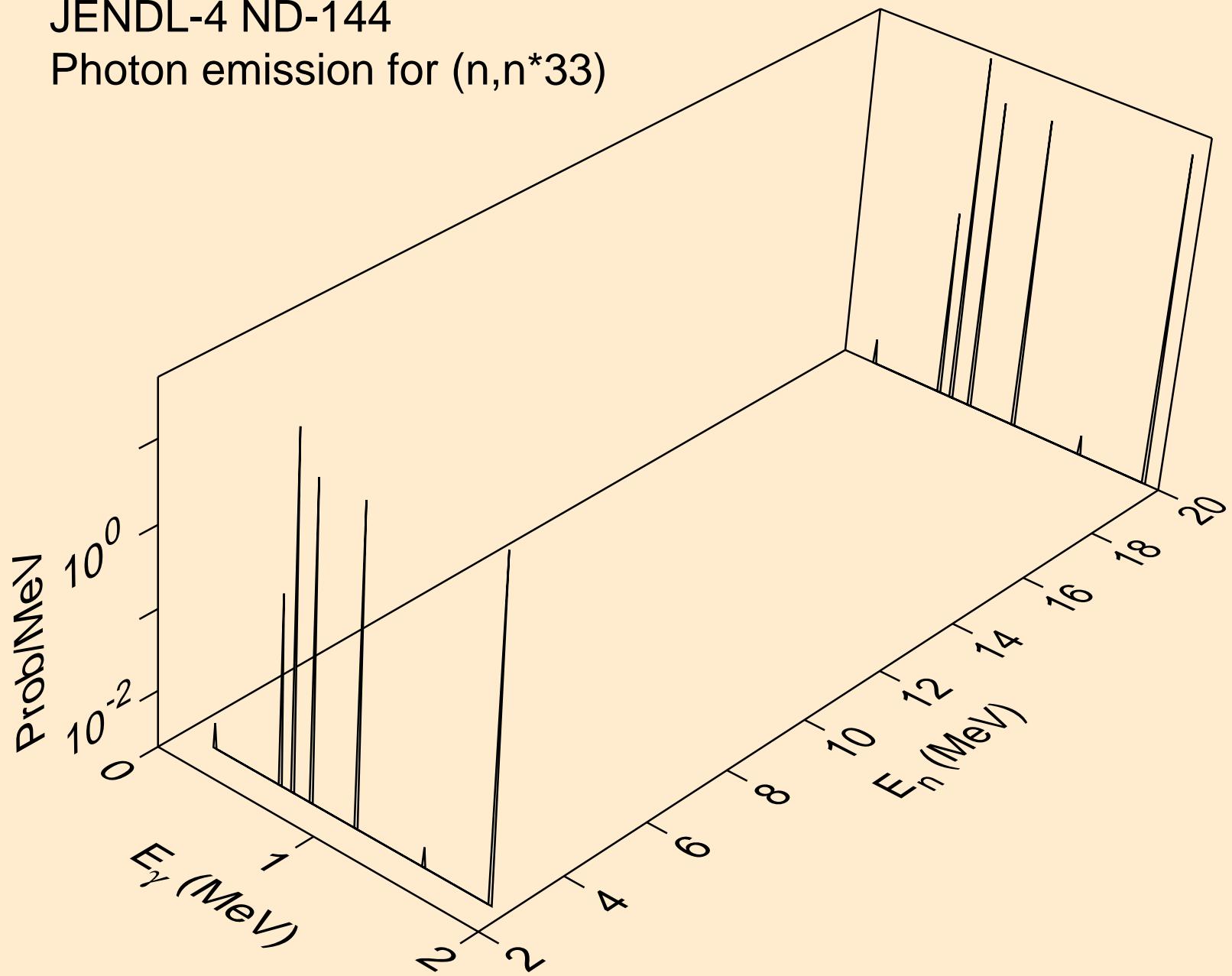
JENDL-4 ND-144  
Photon emission for ( $n, n^*$ )<sup>31</sup>



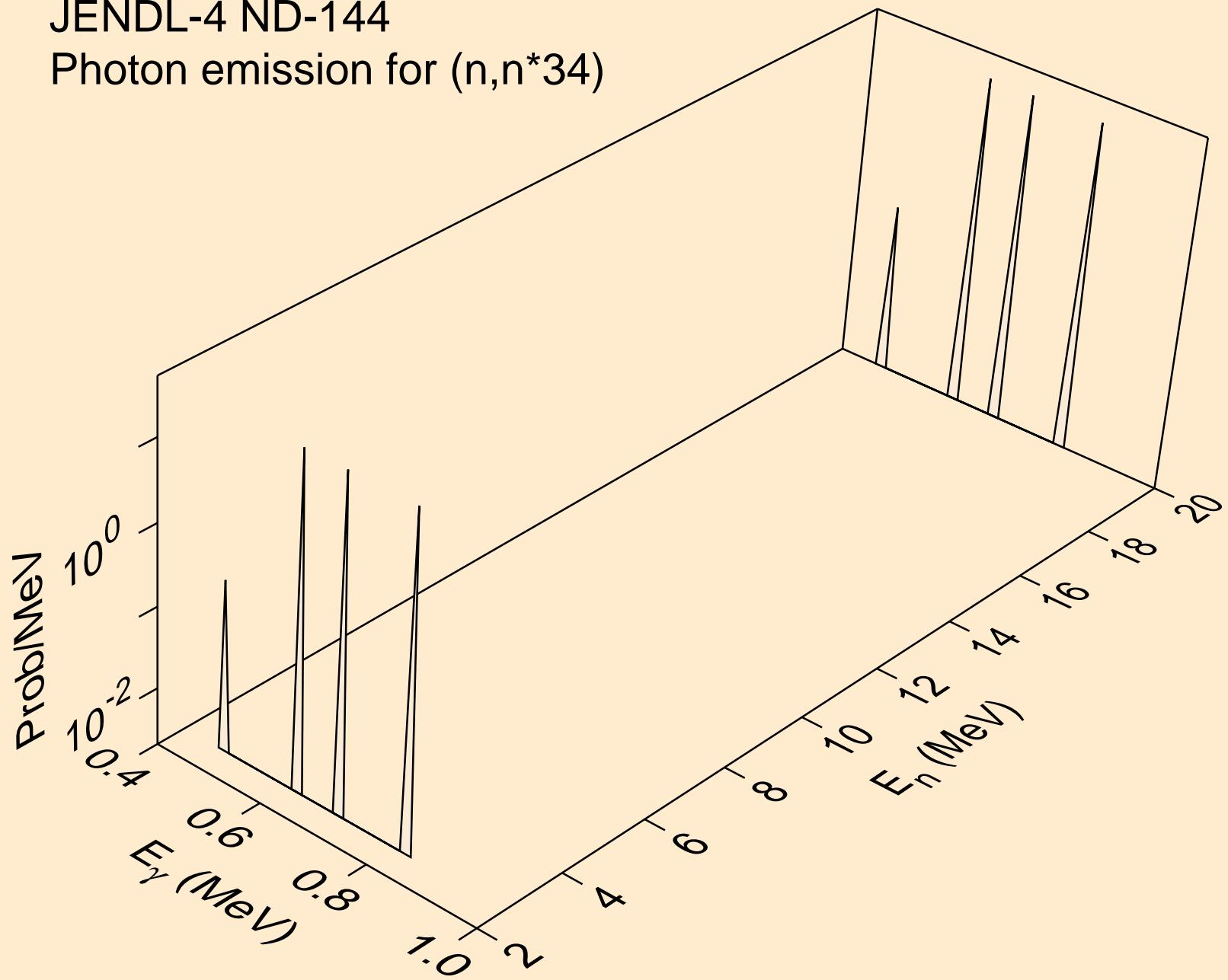
JENDL-4 ND-144  
Photon emission for ( $n, n^* 32$ )



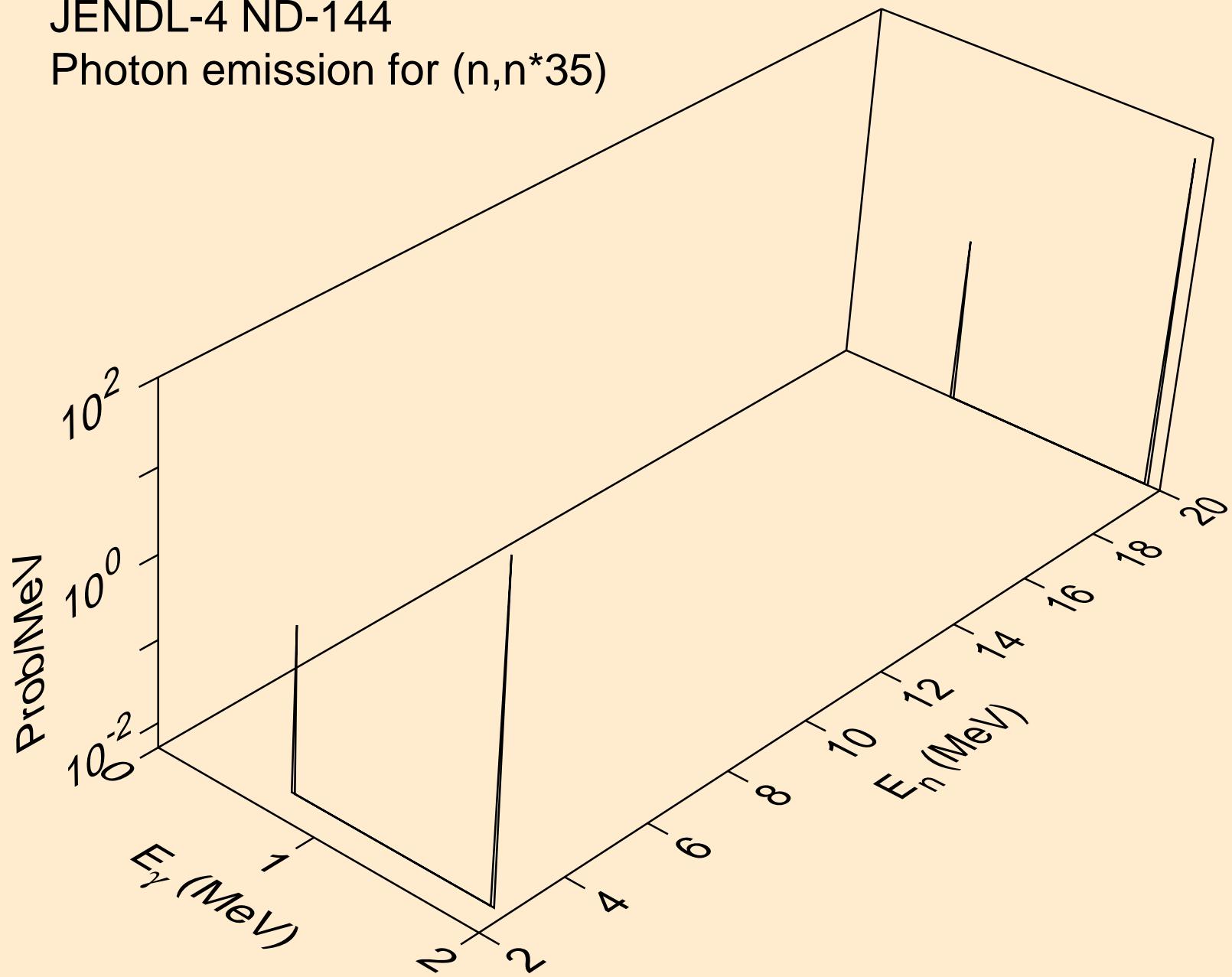
JENDL-4 ND-144  
Photon emission for ( $n, n^* 33$ )



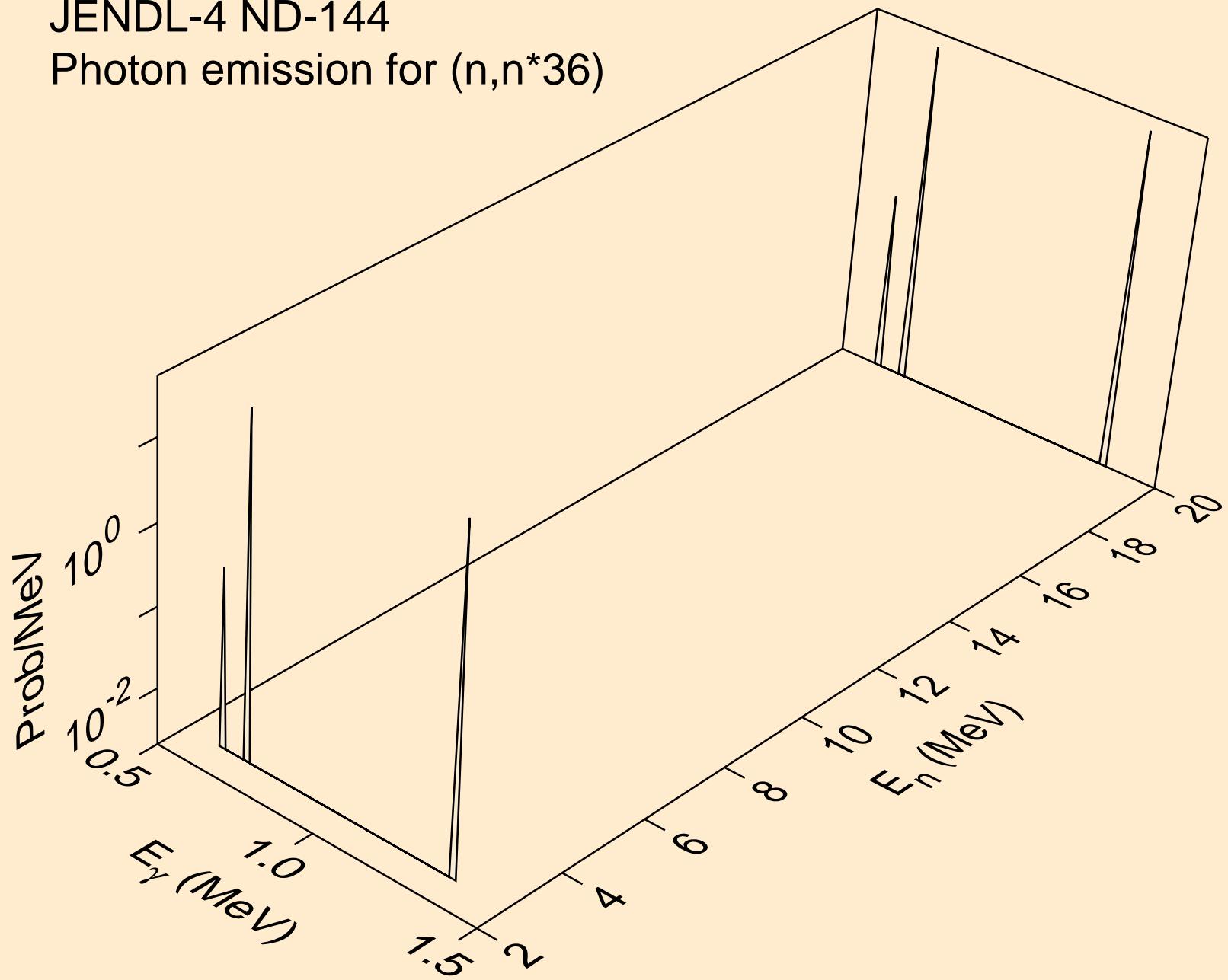
JENDL-4 ND-144  
Photon emission for ( $n, n^* 34$ )



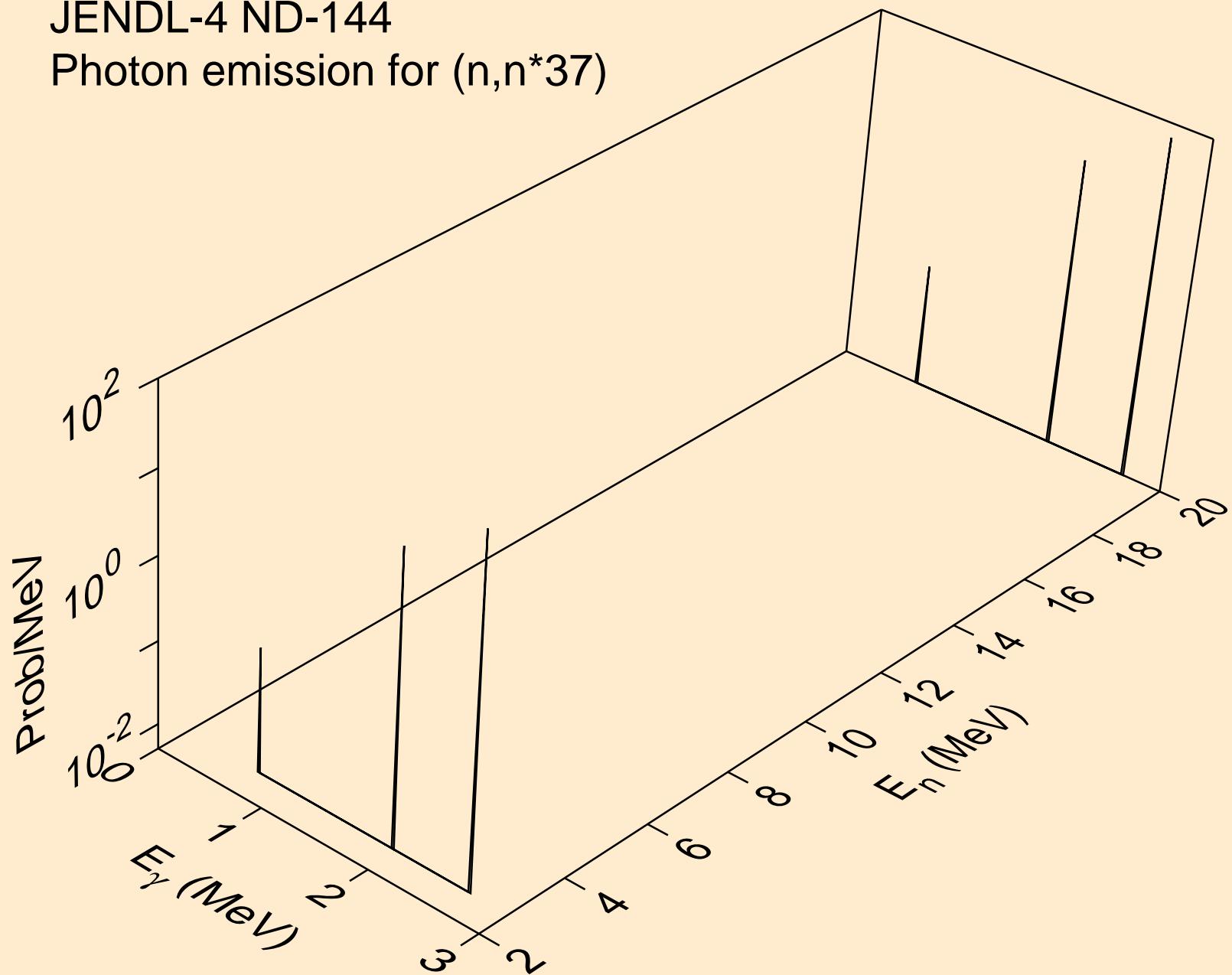
JENDL-4 ND-144  
Photon emission for ( $n, n^*$ )<sup>35</sup>



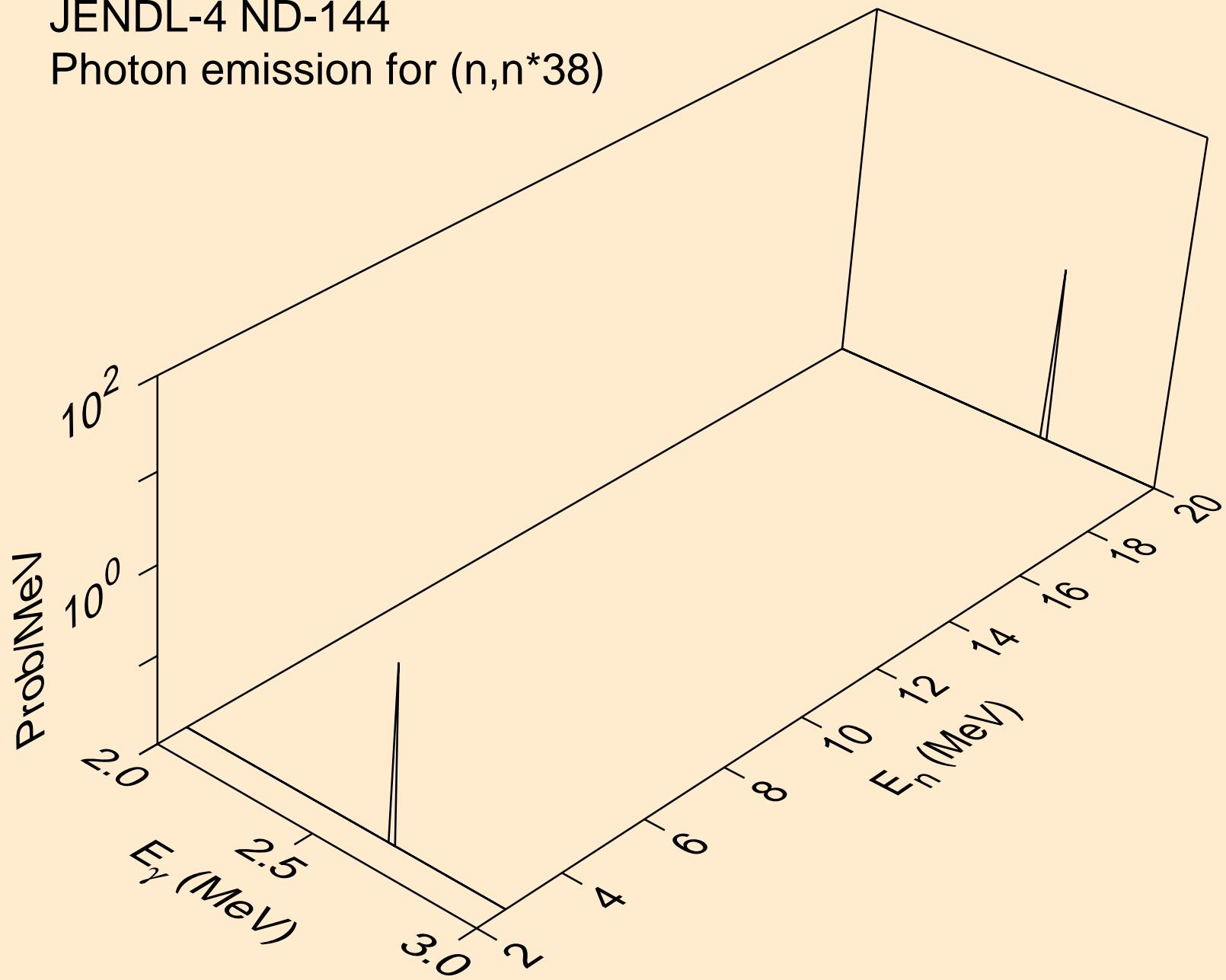
JENDL-4 ND-144  
Photon emission for ( $n, n^* 36$ )



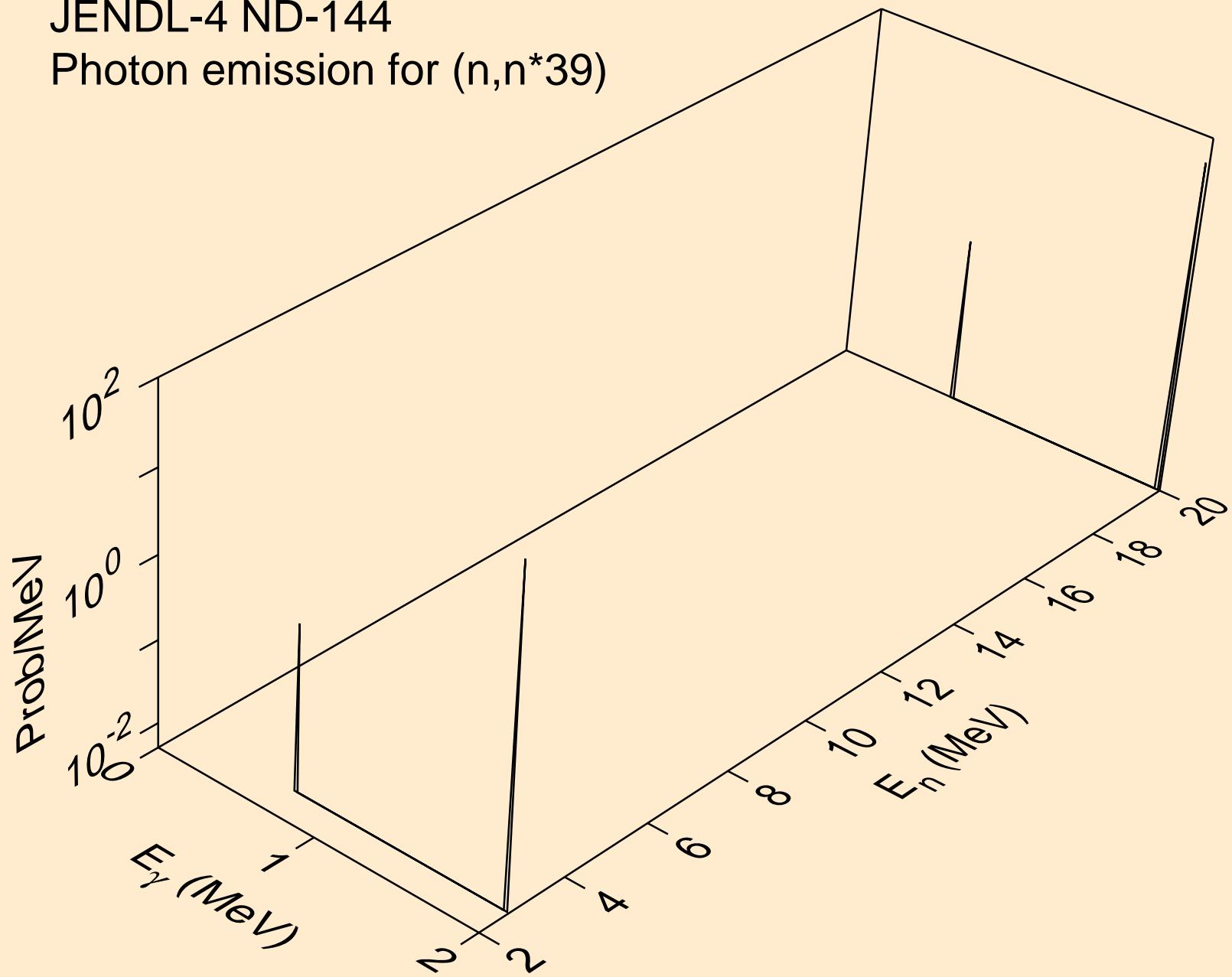
JENDL-4 ND-144  
Photon emission for ( $n, n^*$ )<sup>37</sup>



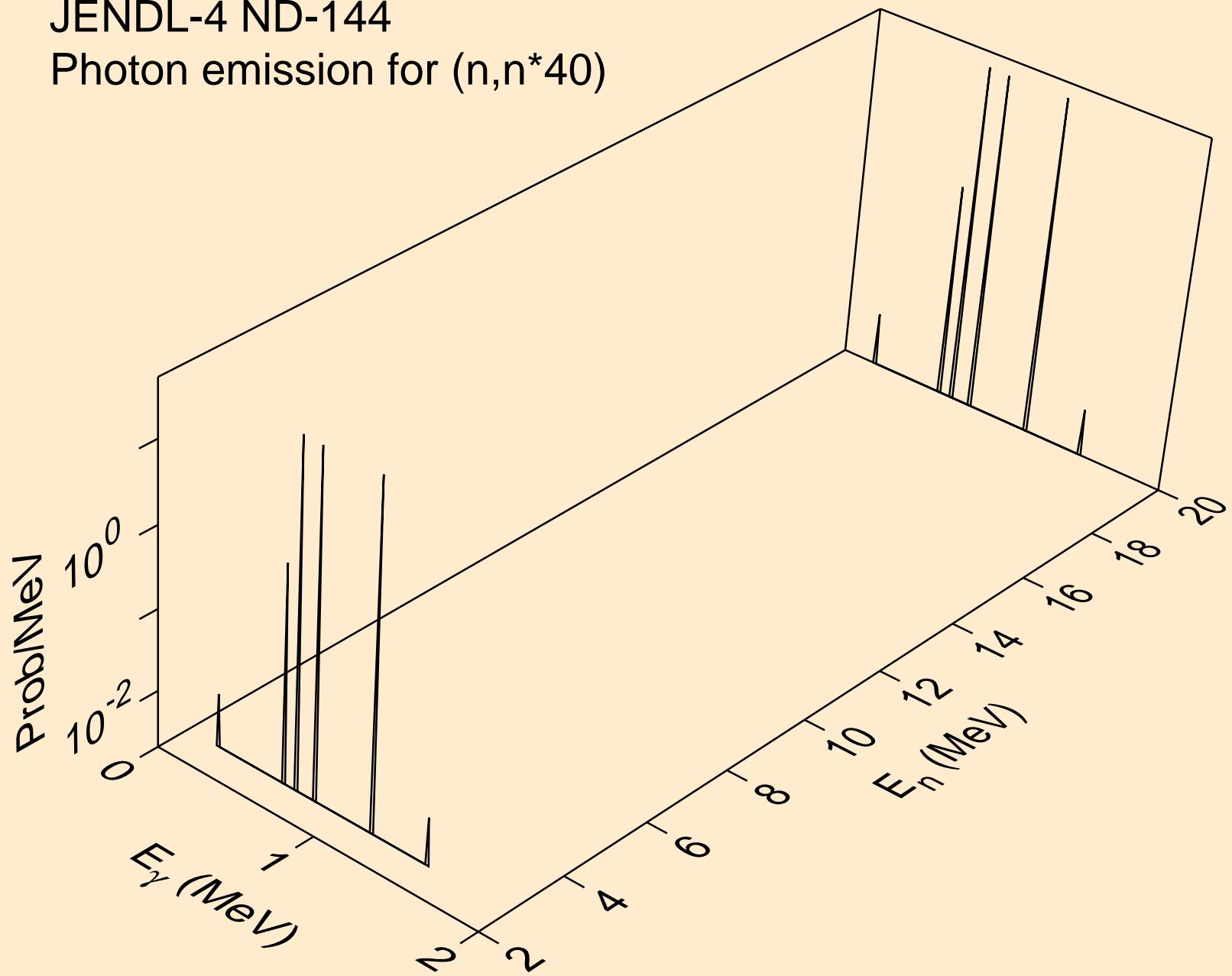
JENDL-4 ND-144  
Photon emission for ( $n, n^*$ )38



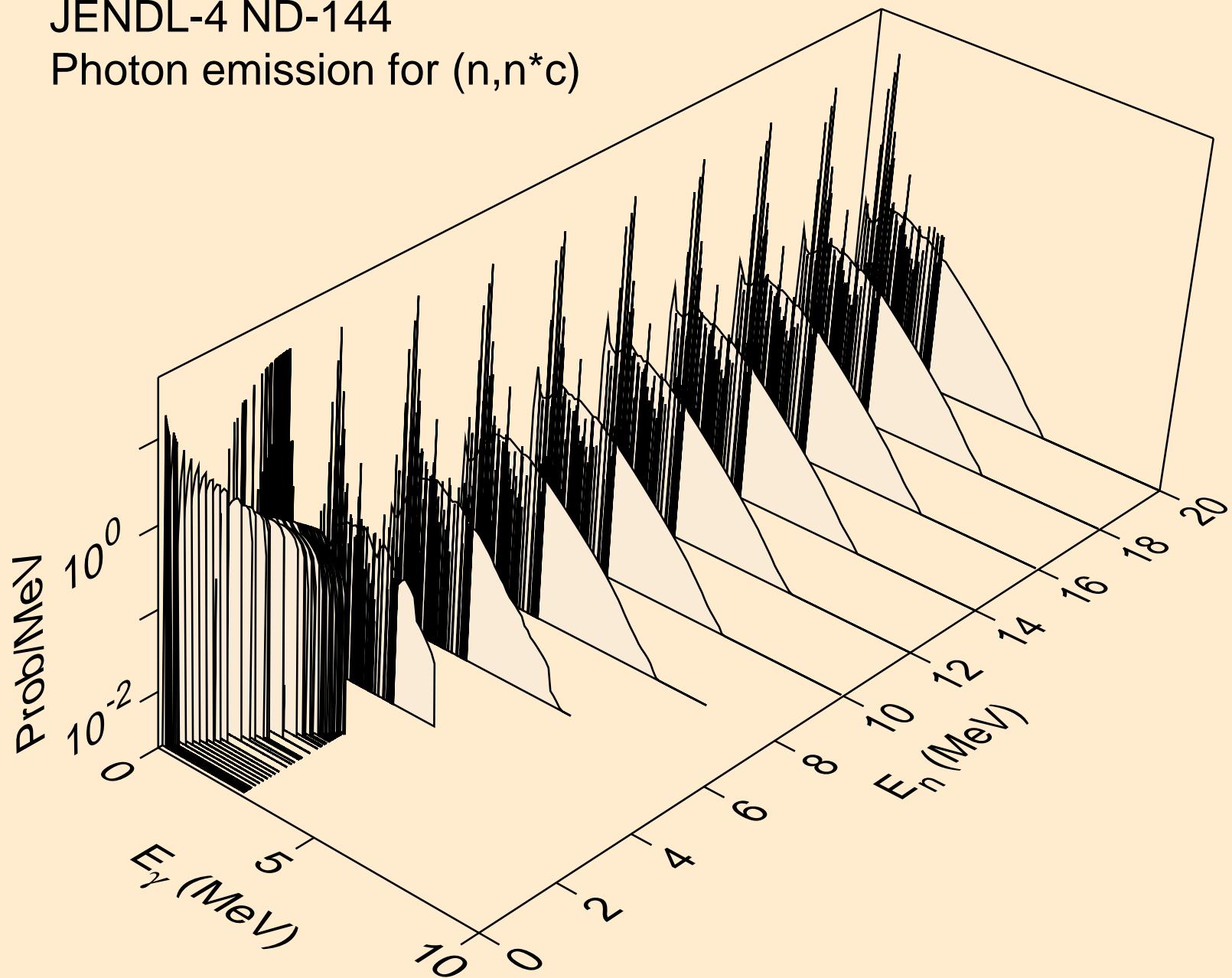
JENDL-4 ND-144  
Photon emission for ( $n, n^* 39$ )



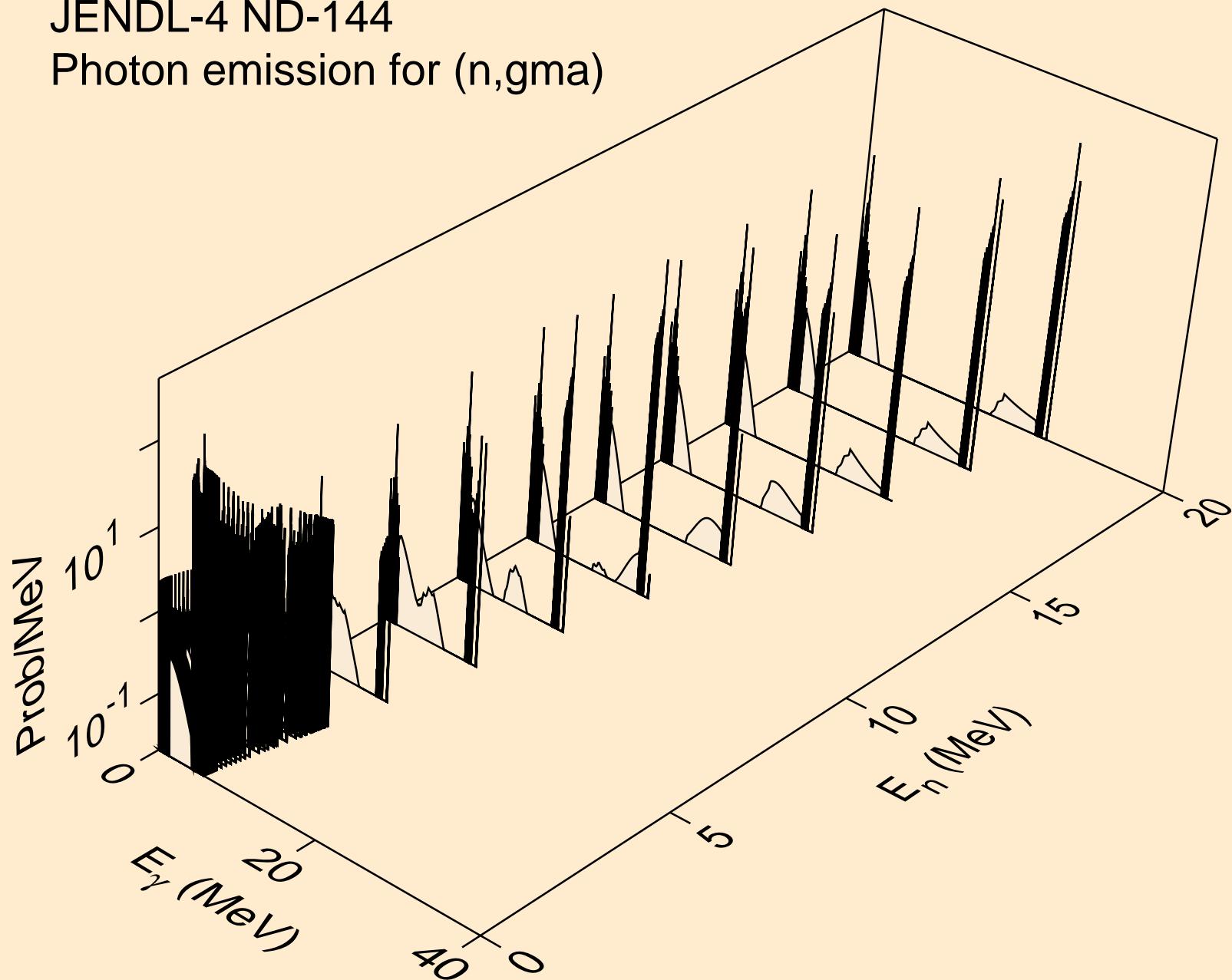
JENDL-4 ND-144  
Photon emission for ( $n, n^*$ )40



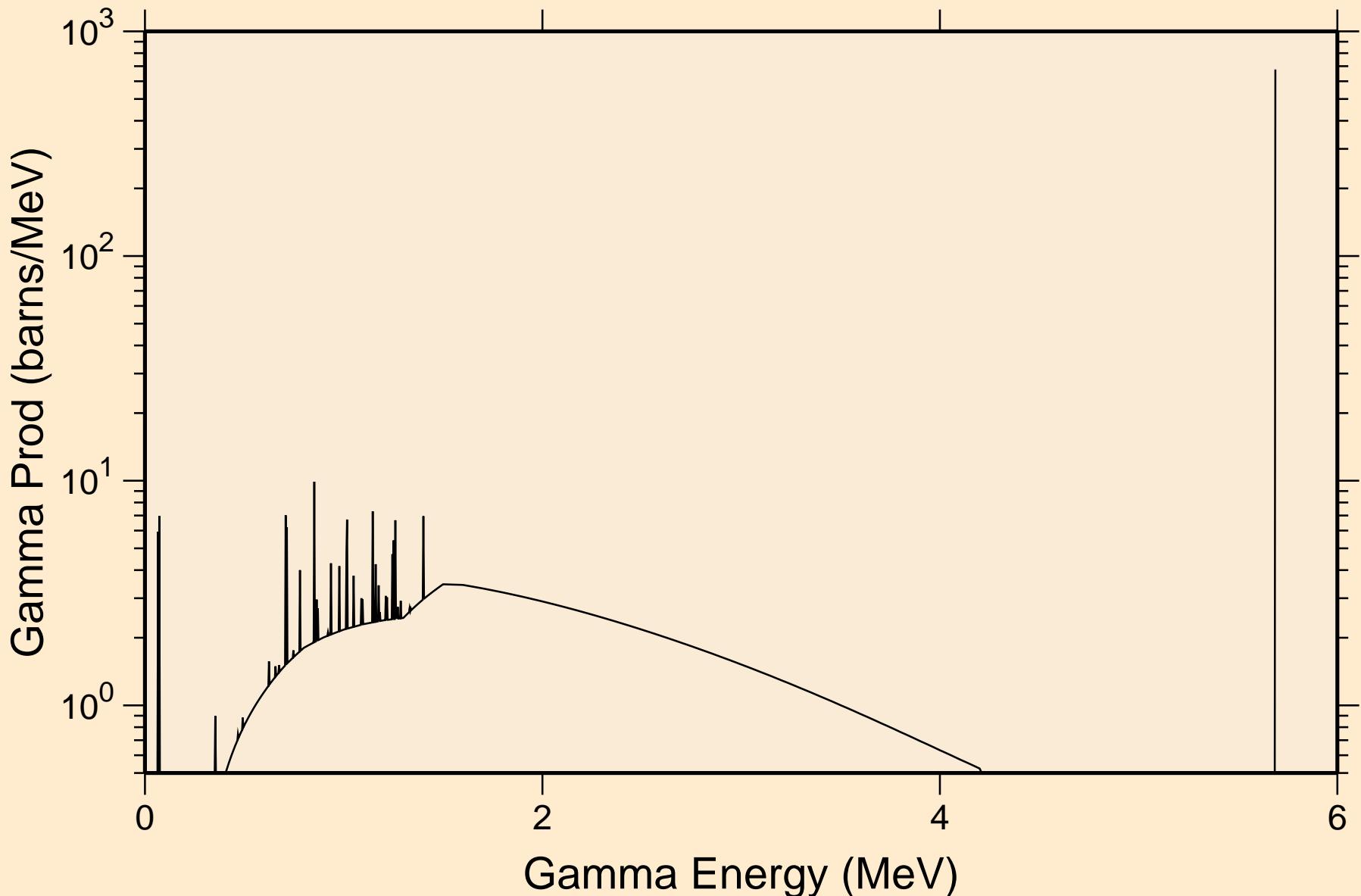
JENDL-4 ND-144  
Photon emission for  $(n,n^*c)$



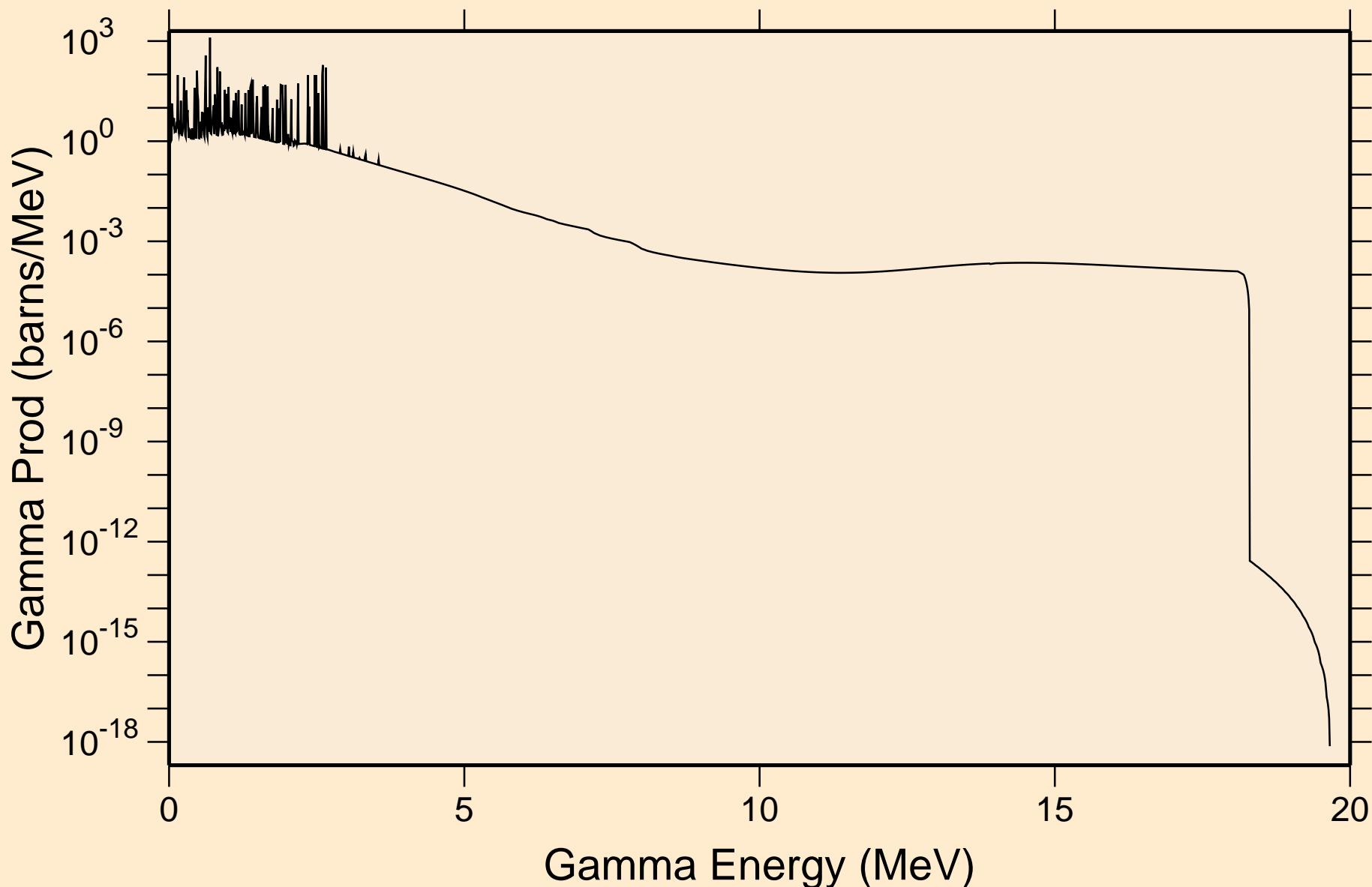
JENDL-4 ND-144  
Photon emission for (n,gma)



JENDL-4 ND-144  
thermal capture photon spectrum

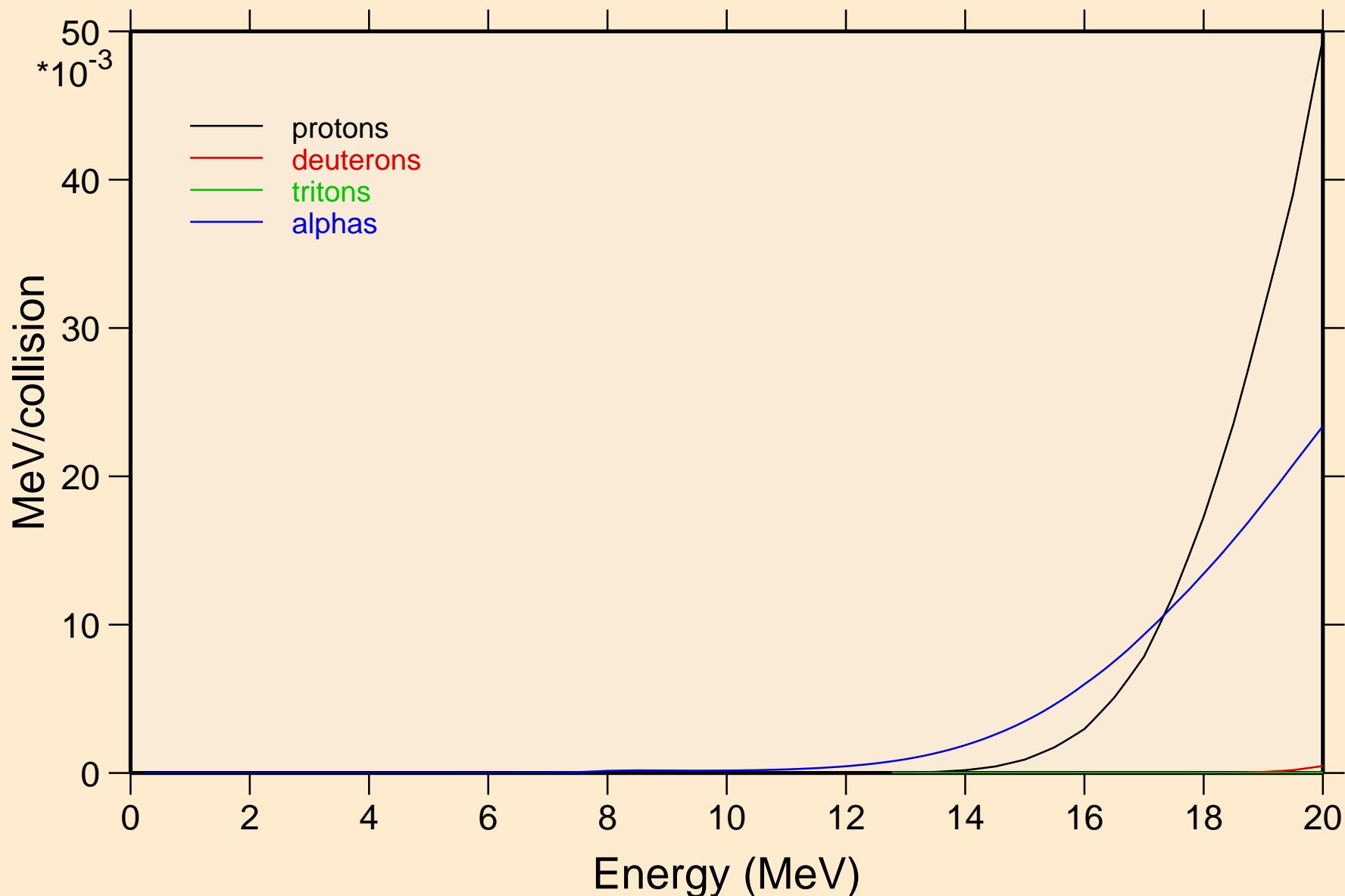


JENDL-4 ND-144  
14 MeV photon spectrum

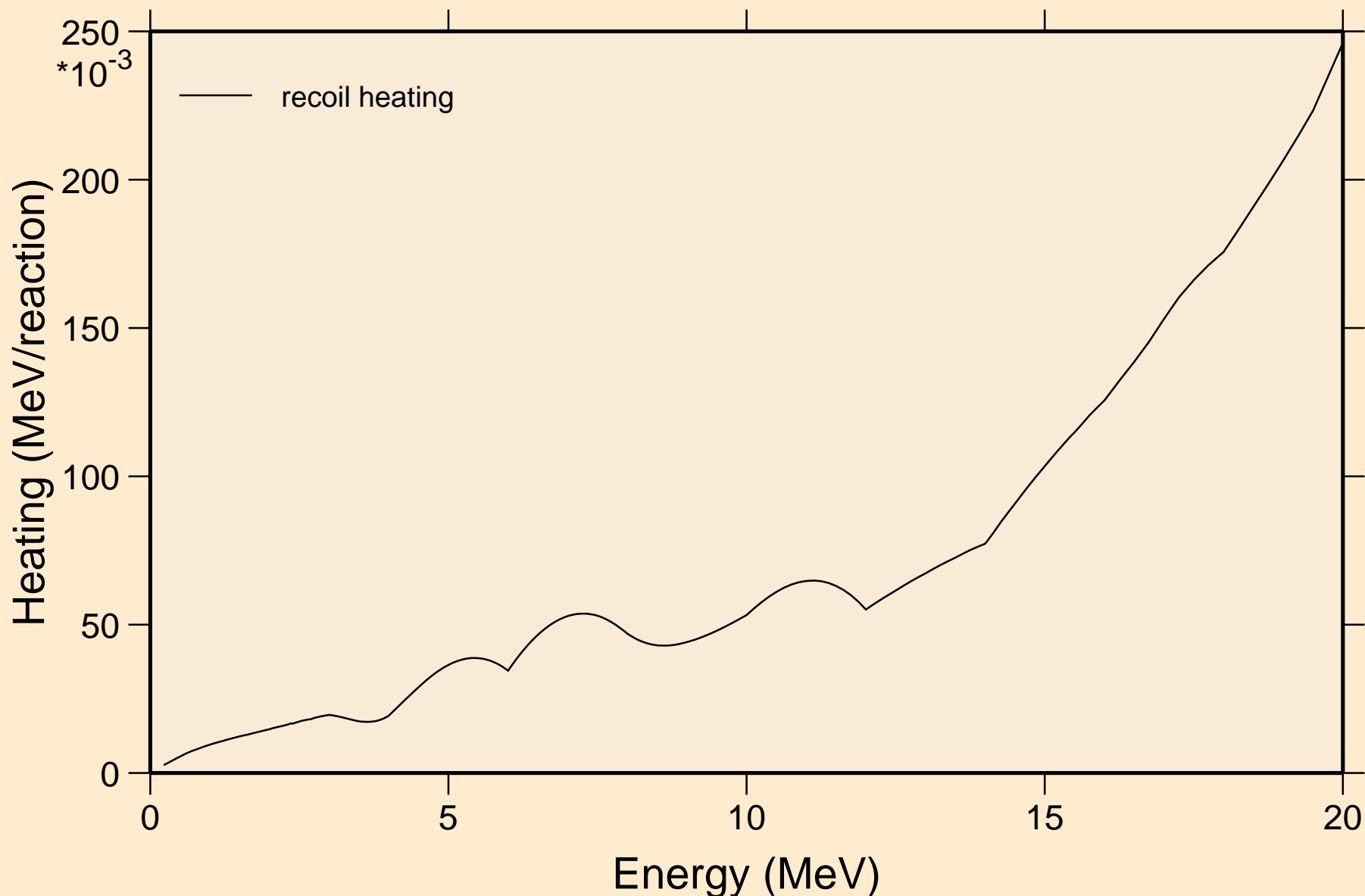


# JENDL-4 ND-144

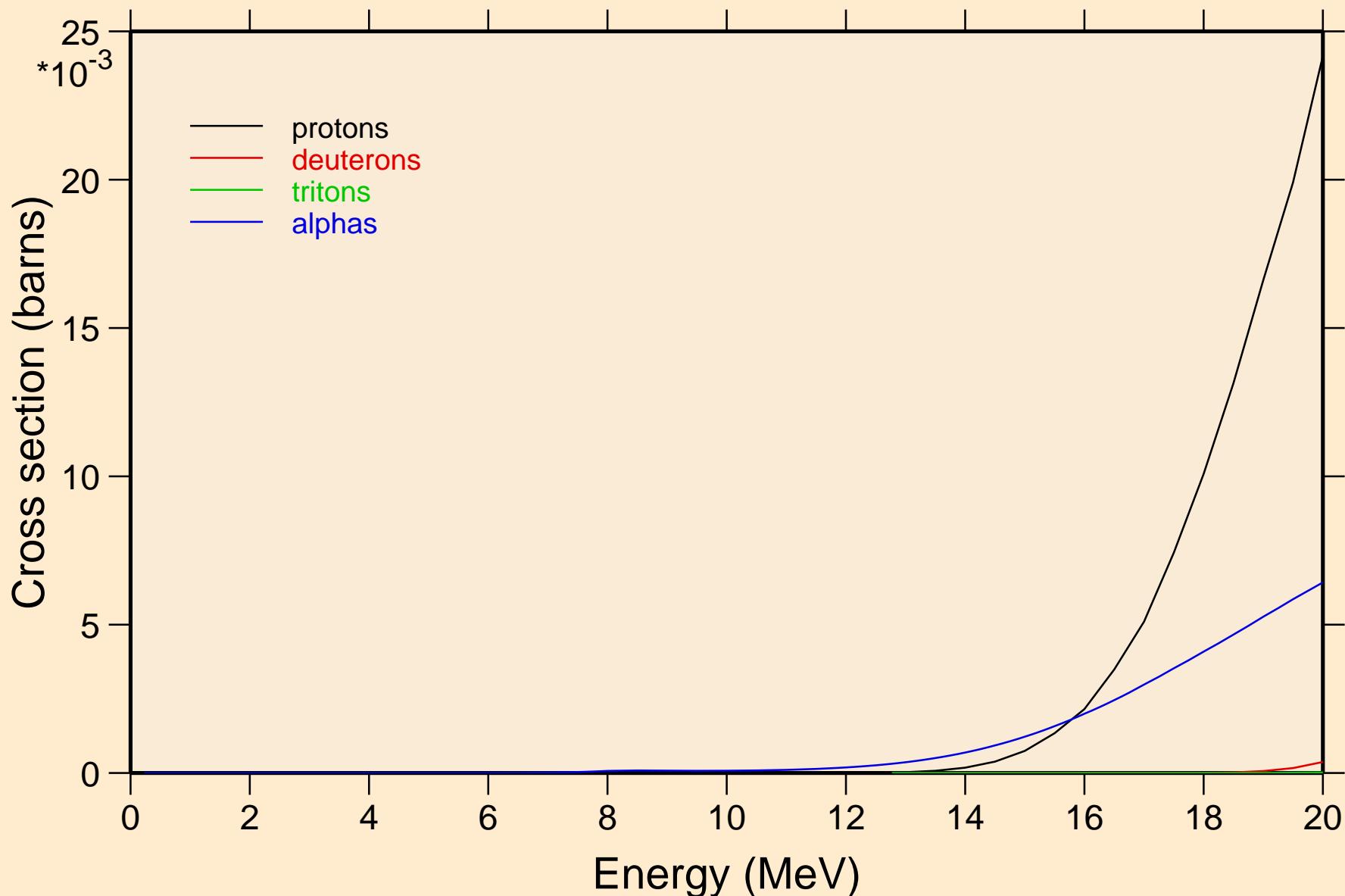
## Particle heating contributions



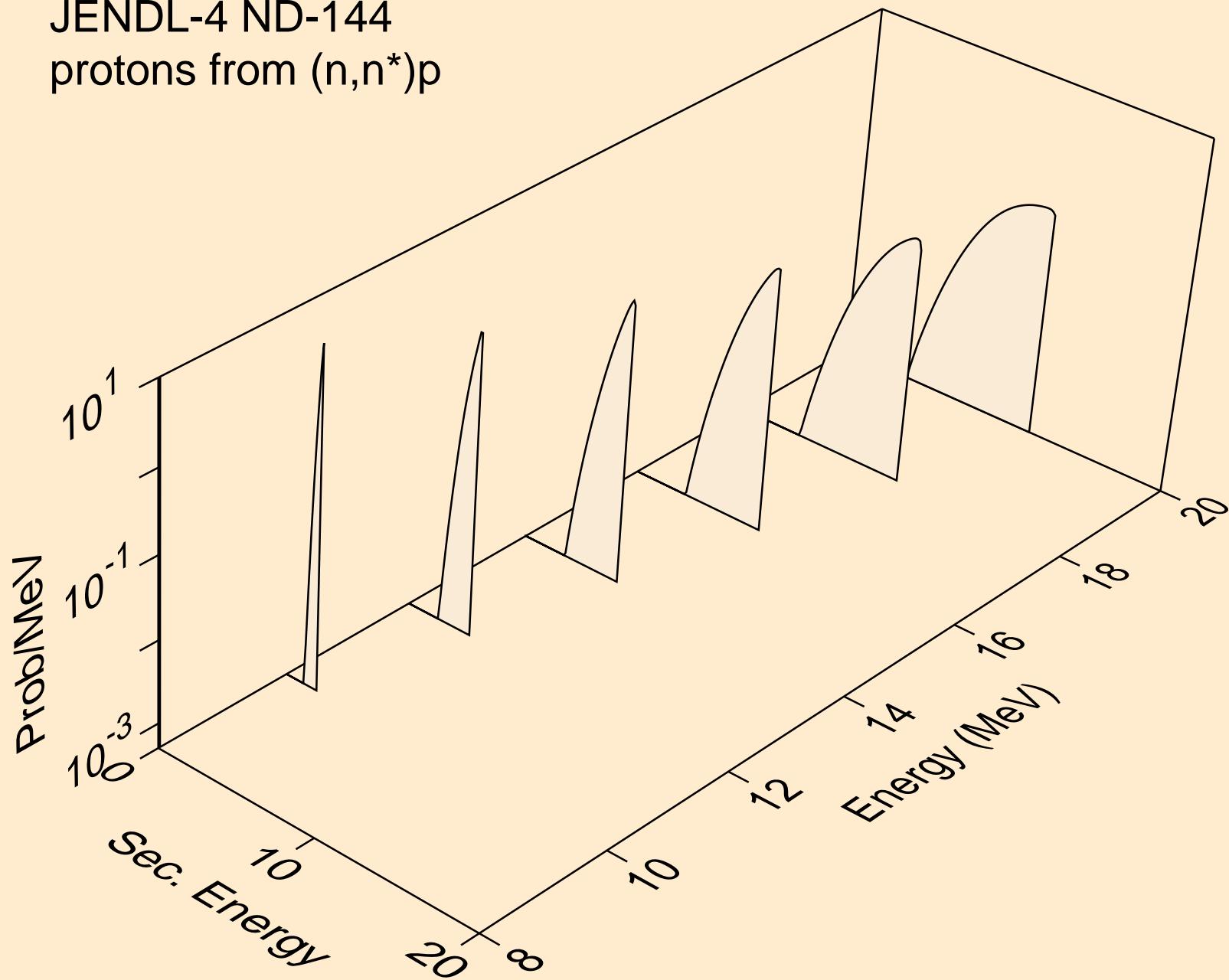
JENDL-4 ND-144  
Recoil Heating



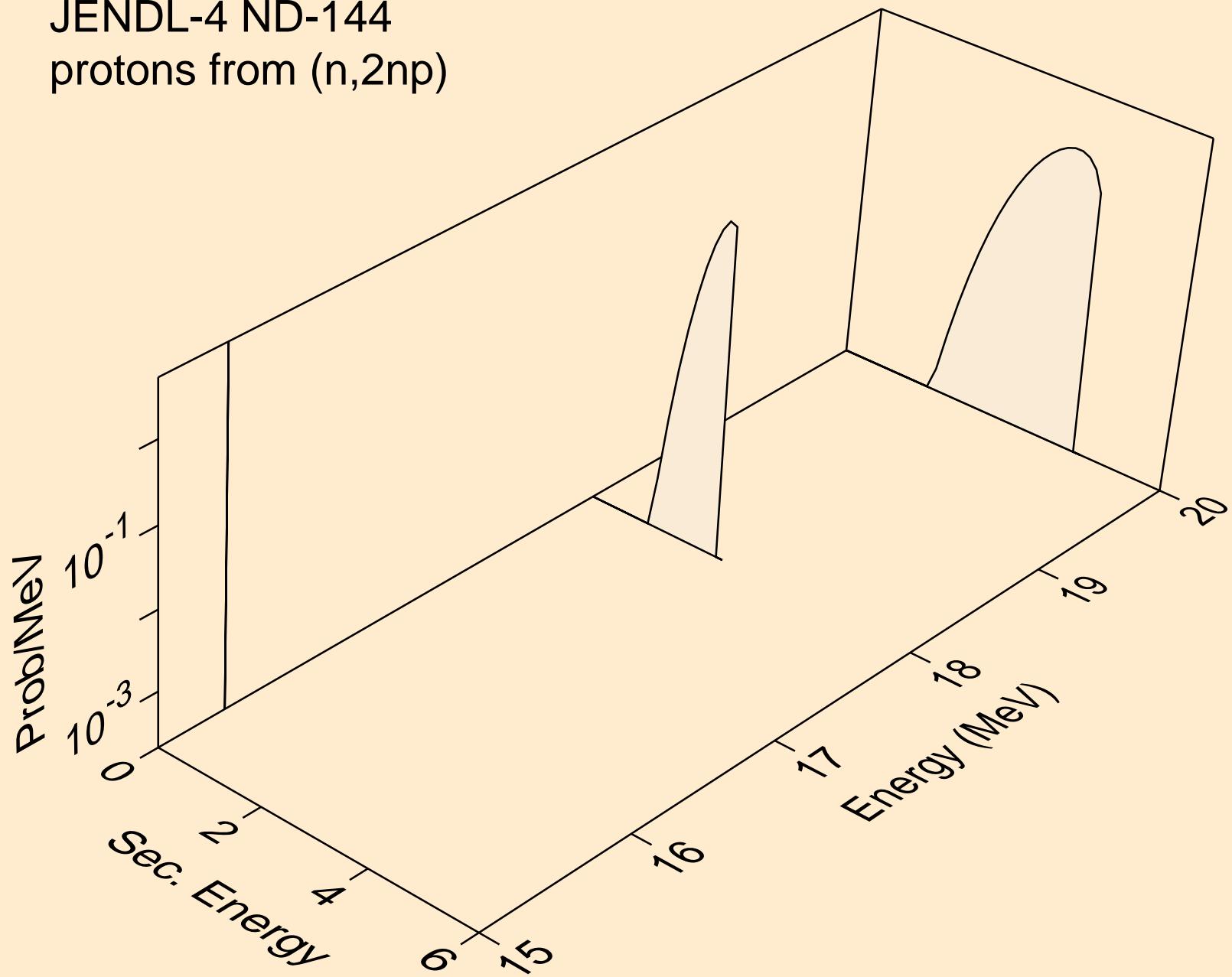
JENDL-4 ND-144  
Particle production cross sections



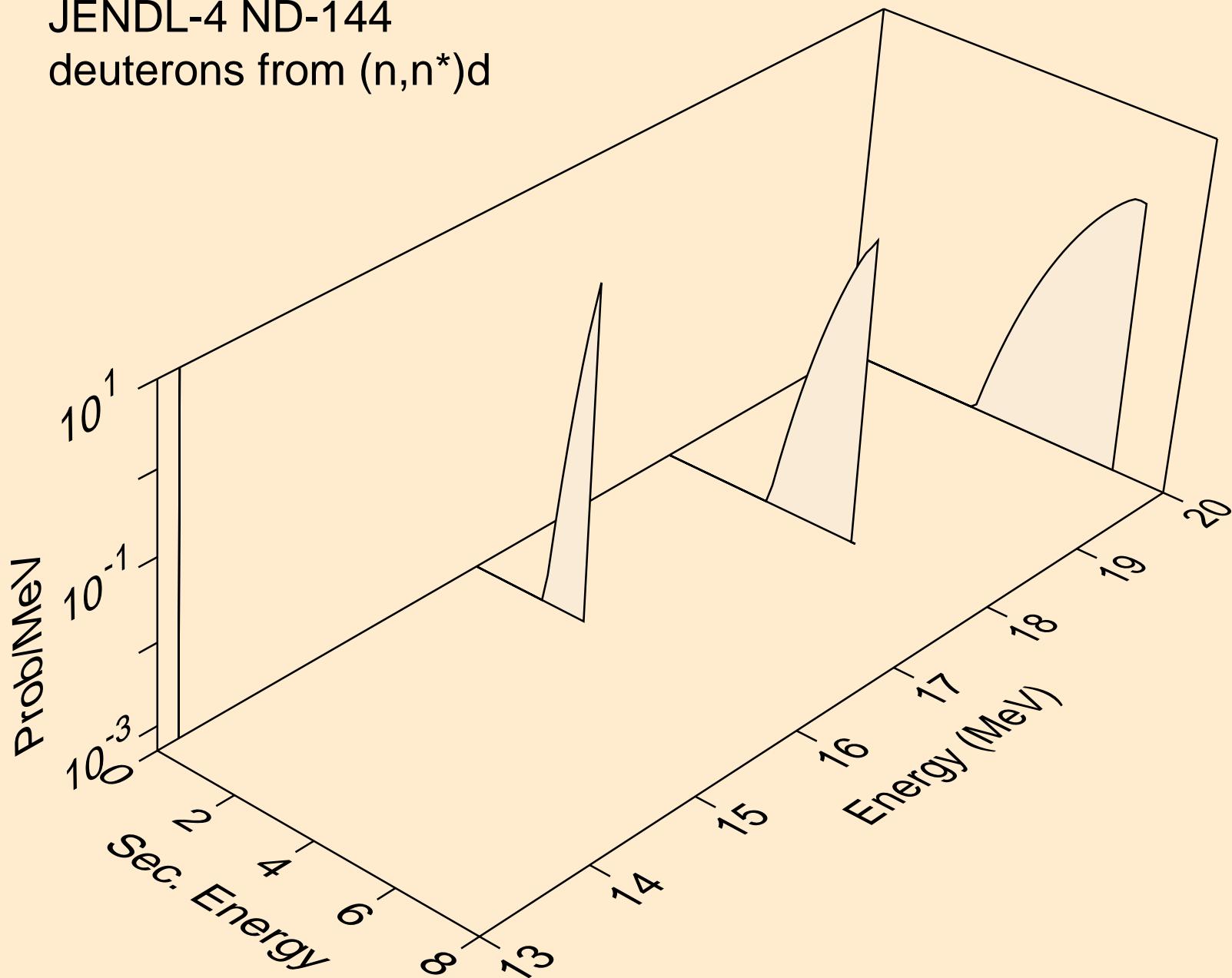
JENDL-4 ND-144  
protons from  $(n,n^*)p$



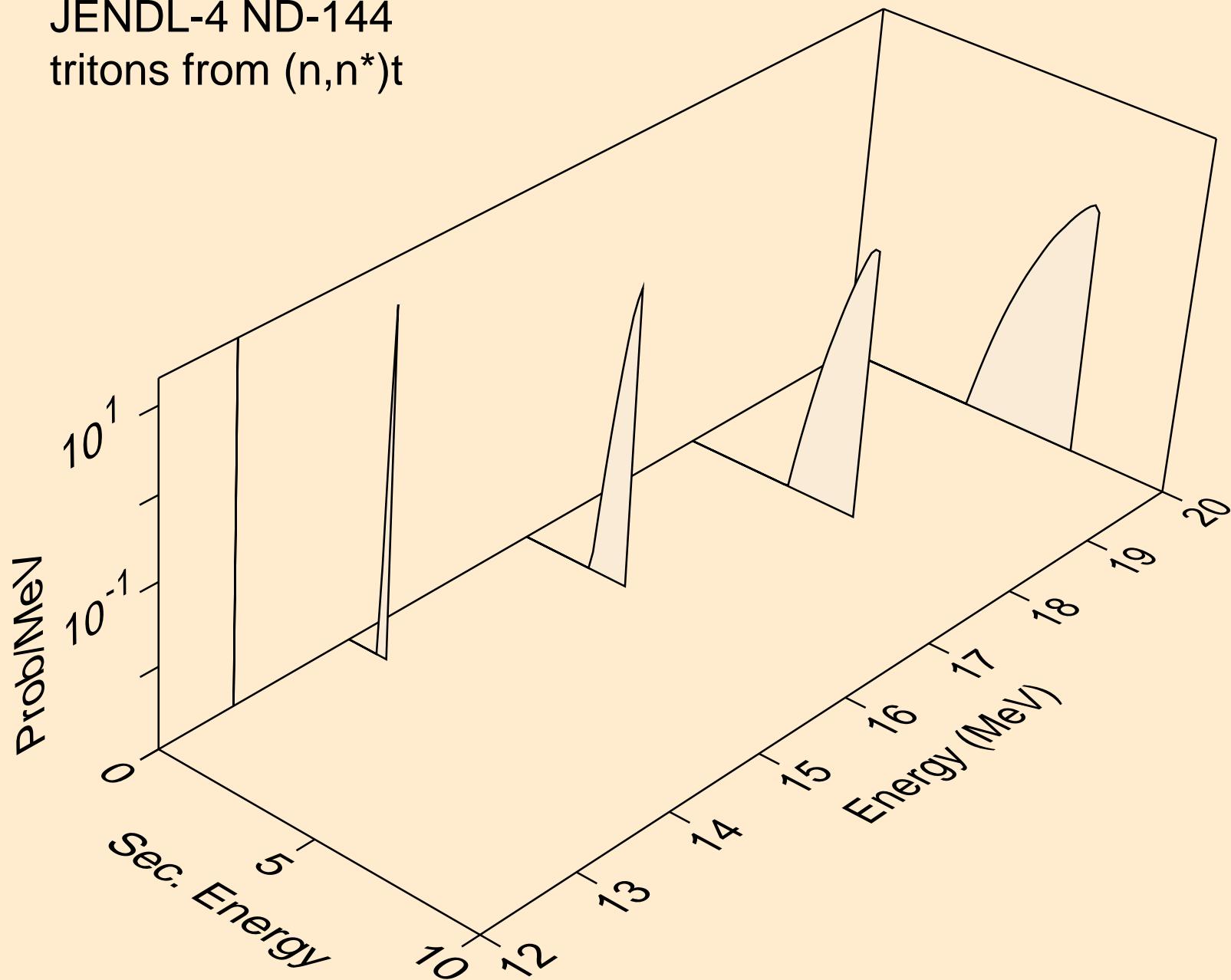
JENDL-4 ND-144  
protons from ( $n,2np$ )



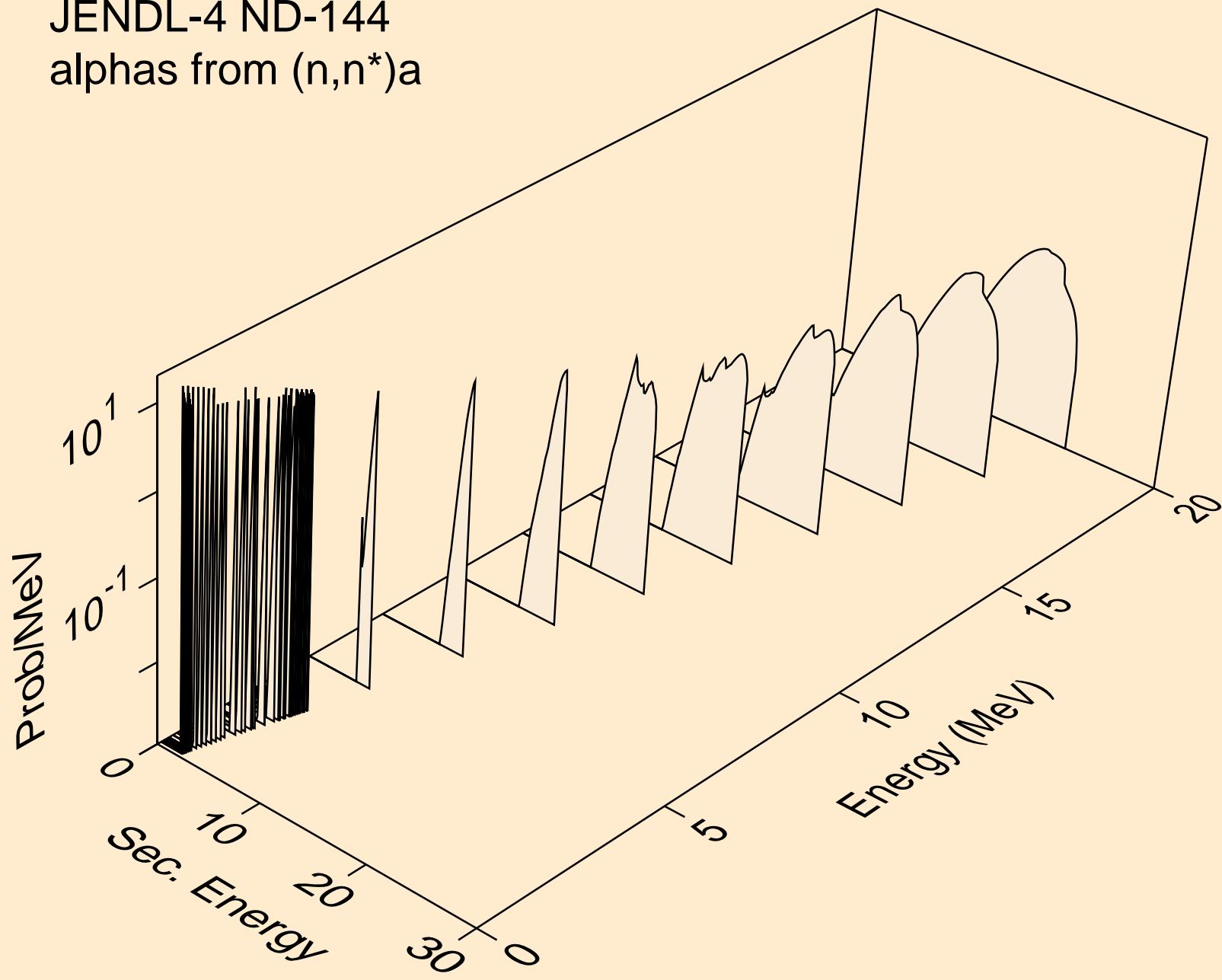
JENDL-4 ND-144  
deuterons from  $(n,n^*)d$



JENDL-4 ND-144  
tritons from  $(n,n^*)t$



JENDL-4 ND-144  
alphas from  $(n,n^*)a$



JENDL-4 ND-144  
alphas from  $(n,2n)a$

